631.8
M36c
no. 53
2d set

THE

Maryland Agricultural College

QUARTERLY

ENTERED AT COLLEGE PARK (MD.) POST OFFICE AS SECOND-CLASS MATTER

NO. 53. AUGUST 1911.

FERTILIZER ANALYSES

R. W. SILVESTER, President
Edited by H. B. McDONNELL, Professor of Chemistry

Published for the Benefit of Agriculture and Sent Free to Anyone Desiring a Copy

Issued in the Months of February, May, August and November

ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

631.8
M36c
#53

ANALYSES OF

Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

Dr. H. B. McDonnell, Professor of Chemistry,—State Chemist.
I. V. Stone, B. S., Assistant Professor of Chemistry.
Cornelius Beatty, A. B., Assistant Chemist.
T. D. Jarrell, B. S., Assistant Chemist.
A. C. Adams, B. S., Assistant Chemist.
Alfred Nisbet, Assistant Chemist.
F. G. Baggs, Clerk.

The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from January to July, 1911, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up of two or more samples taken at different places. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	20 cts. per pound
For Potash (K_2O), in forms free from muriate	6 cts. per pound
For Potash (K_2O), as muriate or kainit	5 cts. per pound
For Available Phosphoric Acid	6 cts. per pound
For Insoluble Phosphoric Acid	2 cts. per pound
For Insoluble Phosphoric Acid when from rock	1 ct. per pound

In Dissolved Rock:

Available Phosphoric Acid	4½ cts. per pound
Insoluble Phosphoric Acid	1 ct. per pound

In Tankage:

For Nitrogen, calculated as Ammonia	15 cts. per pound
For Phosphoric Acid	3 cts. per pound

In Ground Bone:

For Nitrogen, calculated as Ammonia	20 cts. per pound
For Phosphoric Acid	3 cts. per pound

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

In this bulletin the guarantee and the analysis have been reduced to the simplest form, ommitting repetitions, which are so confusing to those unacquainted with chemical terms. The following guaranteed analysis will serve as an example:

Moisture	10 to 15 per cent.
Nitrogen	8235 to 1.6413 " "
Ammonia	1 to 2 " "
Soluble phosphoric acid	6 to 8 " "
Reverted " "	2 to 4 " "
Available " "	8 to 12 " "
Insoluble " "	1 to 3 " "
Total " "	9 to 15 " "
Bone Phosphate	20 to 33 " "
Potash (K_2O)	2 to 4 " "
Sulfate of Potash	4 to 8 " "

The maximum figures are practically meaningless and are prohibited by our law, but the needless repetitions of the same constituents in different forms—merely a matter of calculation—is not prohibited and is just as objectionable. Moisture is always present, in one sense it is a "filler," but if absent the fertilizer would be too dusty for handling and much of the fine material might be lost as dust; if present in excess the fertilizer is too wet for use and the farmer needs no chemist to tell him this. "Soluble phosphoric acid" is that dissolved by pure water; "reverted," is that insoluble in pure water but dissolved by water containing citrate of ammonia of specific gravity of 1.09. These determinations are, as a rule, only made on fertilizers that have been treated with sulfuric acid, or, in other words, have been "dissolved" or rendered soluble.

The two kinds are of nearly equal value and it is common practice to give only the sum of the two, which is the "available phosphoric acid." Frequently the "insoluble phosphoric acid" in mixed fertilizers or acid phosphate is so small and insignificant that it is not even mentioned in the guarantee. However, there is no objection to giving it and in case the amount is considerable it should be stated. With the "available" and "insoluble" given it is superfluous to give the "total," which is simply the sum of the two. If the fertilizer has not been treated with acid, as a raw or steamed bone, the phosphoric acid may then be given as "total." It is very misleading to give the "Bone Phosphate," which is simple 2.18 times the total phosphoric acid. Many farmers do not understand this term, thinking it indicates the amount of pure bone in the fertilizer, and many agents and some manufacturers intentionally promote the confusion. The guarantee of "Bone Phosphate" should be absolutely prohibited by law. If any one wishes to know the "Bone Phosphate" in any fertilizer in this bulletin it may be obtained as follows: To the percent of "available" add the "insoluble," giving the "total" phosphoric acid, and multiply this by 2.18. It is accurate enough for ordinary purposes to multiply by 2.2, which is easily done by doubling the "total" and adding 1-10 of the sum. Thus, a bone is guaranteed (or found) to contain 20 per cent of phosphoric acid: 20 x 2 = 40, add 1-10 of 40, which is 4, and the sum is 44, which is the "Bone Phosphate" equivalent to the 20 per cent of phosphoric acid. This is good practice in arithmetic but has but little if any further value.

The same applies to "sulfate of potash," which is nearly double the percent of actual potash and does not mean, as a rule, that the potash is derived from high-grade sulfate of potash.

The guaranteed analysis given above should be reduced to its simplest form, which gives all the facts, but without "filler," as follows:

Amonia	1 per cent.
Available phosphoric acid	8 " "
Insoluble phosphoric acid	1 " "
Potash	2 " "

If the fertilizer is sold as "bone" or "pure bone" it should mean in either case "pure bone." It is sometimes desirable to know the source of the potash, as in fertilzers for tobacco and potatoes, and this can readily be guaranteed as follows: "Potash (from sulfate) 2 per cent." In practice the chemist tests the potash fertilizers for chlorine and when this is absent, or present in insignificant amount, he knows that the potash is from high-grade sulfate. This is indicated in the tables in this bulletin. Also, if the fertilizer is found to contain nitrate of soda as a source of all or a part of the ammonia, it is indicated in the tables.

Our fertilizer law could be greatly improved. It should prohibit mis-

leading guarantees. It should require "bone" to mean bone and nothing else. However, we doubt the advisability of requiring by law that the formula of every mixed fertilizer be printed on the bags for the reason that, in many cases, it would be misleading, as many terms used are very indefinite unless accompanied by explanation and analysis. For example, the term "tankage" is a very elastic one and is very indefinite without a statement of the kind of tankage and the analysis of the same. We have "hog tankage," "beef tankage," "fish tankage" (generally called "dried fish," or simply "fish scrap") "garbage tankage," etc.

Raw materials for the manufacture of fertilizers vary greatly in composition and manufacturer's formulas must be frequently changed on this account. If the consumer will demand a high analysis there will be no room for "filler." There is not much excuse for a good fertilizer with less than 12 per cent of total plant food as indicated by analysis. Dissolved rock is the source of most of the phosphoric acid used in fertilizers and dissolved rock should not contain less than 14 per cent of available phosphoric acid. Kainit contains slightly over 12 per cent potash. A mixture of the two would, of course, contain over 12 per cent and less than 14 per cent of available phosphoric acid plus potash, or total plant food. In fact 350 pounds of kainit and 1650 pounds of 14 per cent rock should make a mixture with 2 per cent of potash and 11.5 per cent of available, but a safe guarantee would be 11 per cent. This gives 13 per cent total plant food. Less than this indicates adulteration or filler.

If, instead of kainit, muriate or sulfate were used the total plant food in the mixture would be between 14 per cent and 50 per cent. Thus 200 pounds muriate (50 — per cent potash) and 1800 pounds of 14 per cent rock would give 5 per cent potash and about 12.5 per cent of available phosphoric acid. The same principle applies to more complex mixtures containing ammoniates. A high analysis can only be obtained by using high-grade materials. A low analysis is obtained by using high-grade materials with "filler" or, generally what is more objectionable, the use of low-grade materials in the mixture.

If one insists on a particular formula he should have the same mixed to order, and then he cannot be sure that something "just as good" has not been substitued for some ingredient unless he mixes the materials himself.

This department does not inspect and analyze lime, as this is not a "fertilizer," as defined in the fertilizer law. If it is desired that lime be inspected and analyzed it will be necessary to have a special law, similar to the fertilizer law, as is the case in several nearby states.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Amer. Agrl. Chem. Co., New York.	**N. Y.**										
22372	Acme Fish Mixture.	Baltimore	a1.06	1.00	4.05	3.00	.70	.....	6.81	6.00	$16.74	$14.20
22399	Ammoniated Super-Phosphate	Cumberland.	3.09	3.00	2.16	2.00	1.30	1.00	9.04	9.00	25.89	25.20
22190	Big Crop Phospate	Baltimore	.....	.....	5.11	5.00	.70	.....	8.64	8.00	13.03	12.20
22168	Dead Shot Phosphate	Baltimore	.65	.50	2.45	2.00	.92	.....	8.26	8.00	15.33	13.60
22191	Delaware Corn Grower	Baltimore	.....	.....	4.82	3.00	.80	.....	8.14	6.00	12.31	8.40
22184	Excelsior Alkaline Bone.	Baltimore	.....	.....	5.18	5.00	.67	.....	10.30	10.00	14.58	14.00
22185	Fine Ground Bone.	Laurel	2.83	3.00	.....	.....	*24.24	*22.88	.....	.....	25.86	25.73
22814	Fish, Bone & Potash	Baltimore	a2.06	2.00	3.65	3.00	.72	.....	6.58	6.00	20.08	18.20
22183	Forsythe and Linthicum Mixture.	Ellicott City	2.32	2.25	4.54	4.00	2.55	4.50	11.56	9.00	28.71	25.60
22298	Fruit Tree Invigorator	Smithsburg	.....	.....	7.55	8.00	.87	.....	10.40	10.00	17.08	17.00
22853	Gem Alkaline Phosphate	Baltimore	.....	.....	3.17	3.00	.37	.....	6.48	6.00	9.07	8.40
22804	H. G. Snyder Money Saving Phos.	Keedysville	.89	.75	5.63	5.00	.62	....	8.78	8.00	19.98	17.60
22192	Ideal Corn Grower.	Annapolis	1.06	1.00	4.36	4.00	1.37	.....	8.05	8.00	18.81	17.60
22178	Pure Ground Bone.	Catonsville	4.35	4.00	.....	.....	*20.66	*20.59	.....	.....	29.80	28.35
22284	Royal Alkaline Bone	Baltimore	.....	....	3.74	4.00	.82	.....	11.06	10.00	13.85	13.00
22299	Special Orchard Fertilizer.	Smithsburg.	a1.11	1.00	6.37	6.00	.82	.....	10.55	10.00	23.80	22.00
22193	Special Potash Mixture	Annapolis	1.13	1.00	7.29	7.00	1.05	.....	9.65	9.00	23.81	21.80
22215	Special Tomato Fertilizer.	Baltimore	1.01	1.00	4.25	4.00	.95	.....	8.44	8.00	18.80	17.60
22819	Super-Phosphate 16%	Baltimore	.....	.....	.....	.....	.55	.....	16.21	16.00	14.70	14.40
22198	Top Notch Phosphate	Baltimore	2.05	2.00	5.04	5.00	1.47	.....	8.36	8.00	23.86	22.60
22285	Young's Melon Fertilizer.	Baltimore	2.95	3.00	10.26	10.00	.95	.....	9.84	10.00	34.25	34.00
	A. A. C. Co. (Canton), Balto., Md.											
22219	Baker's Dissolved S. C. Phosphate	Baltimore	....	....	.....	.....	1.20	.....	14.32	14.00	13.13	12.60
22357	Baker's Fish Guano	Baltimore	a2.32	2.00	2.51	2.00	1.10	.....	8.03	8.00	21.87	19.60

22390 Baker's Wh., Corn & Gr. Mix (Colora

22390	Baker's Wh., Corn & Gr. Mix.	Colora	1.04	1.00	2.19	2.00	.70		9.66	9.00	18.22	16.80
22820	Baker's Standard H. G. Guano	Baltimore	2.28	2.50	3.31	3.00	.90		8.46	8.00	22.94	22.60
22229	C.C.C. Special Compound	Baltimore	2.63	2.50	5.89	6.00	1.05		8.50	8.00	27.03	25.60
22295	Eagle Phosphate	Baltimore	1.19	1.00	2.42	1.00	.72		7.58	7.00	16.57	13.40
22869	Harrow Brand Crop Grower	Baltimore	1.01	1.00	1.12	1.00	.70		8.19	8.00	15.27	14.60
22244	Potato Manure	Reisterstown	1.57	1.50	5.78	5.00	.77		6.61	6.00	20.30	18.20
22245	Rusurgam Guano	Reisterstown	1.06	1.00	4.07	4.00	.87		8.30	8.00	18.62	17.60
22228	Soluble Phosphate & Potash	Baltimore			2.50	2.00	.90		10.32	10.00	11.97	11.00
22169	Truckers' Delight	Baltimore	4.40	5.00	5.62	5.00	1.80		7.29	7.00	32.69	33.40
	A. A. C. Co. (Detrick), Balto., Md.											
22898	Ammoniated Bone Phosphate	Baltimore	1.64	1.50	2.44	2.00	1.02		9.17	9.00	20.41	18.80
22207	Corn and Oats Fertilizer	Baltimore	1.09	1.00	3.31	3.00	1.15		9.29	9.00	19.28	17.80
22122	Dissolved S. C. Phosphate	Baltimore					.75		14.04	14.00	12.79	12.60
22373	Fish Mixture	Baltimore	a2.05	2.00	2.33	2.00	1.07		8.05	8.00	20.62	19.60
22132	Gold Basis	Baltimore	7.04	7.00	5.45	5.00	1.30		6.69	6.00	42.16	40.20
22170	Gold Eagle	Baltimore	2.95	3.00	6.23	6.00	1.10		6.85	6.00	26.69	25.20
22870	Imperial Compound	Baltimore	1.42	1.00	2.49	2.00	.75		9.02	8.00	19.29	15.60
22246	K K K Kangaro Kom. Kompound	White Hall	2.02	2.00	3.34	3.00	1.25		8.47	8.00	22.08	20.60
22391	Paragon Am. Phos. & Potash	Singerly	1.01	1.00	1.10	1.00	.72		7.22	7.00	14.09	13.40
22236	Phosphate & Potash 16 x 4 Mix.	Baltimore			2.06	2.00	.95		11.63	11.00	12.72	11.90
22789	P. & B. Special Fertilizer	Baltimore			2.90	3.00	.97		12.07	12.00	13.95	13.80
22208	Quick Step Phosphate	Baltimore	2.95	3.00	4.37	4.00	1.22		8.66	8.00	27.05	25.60
22888	Royal Crop Grower	Baltimore	2.10	2.00	2.29	2.00	.85		8.22	8.00	20.89	19.60
22313	Soluble Phosphate and Potash	Mt. Airy			2.33	2.00	.95		9.84	10.00	11.38	11.00
22805	Special Mixture	Baltimore	1.09	1.00	1.34	1.00	.72		8.32	8.00	15.97	14.60
22358	Victory Alkaline Bone	Baltimore			5.18	5.00	1.02		12.07	12.00	16.24	15.80
22355	Victory Alkaline Bone	Downesville (WHA)			5.22	5.00	.52		11.83	12.00	15.97	15.80
	A. A. C. Co. (Lazaretto), Baltimore, Md.											
22854	Ammoniated Phosphate	Baltimore	1.13	1.00	2.40	2.00	.67		8.24	8.00	17.08	15.60
22273	Crop Grower	Baltimore	2.17	2.00	2.74	2.00	.82		9.21	8.00	22.80	19.60
22374	Dissolved Phosphate	Baltimore					1.12		14.02	14.00	12.84	12.60
22300	Dissolved Phosphate & Potash	Cumberland			2.44	2.00	.50		8.67	8.00	10.34	9.20
22150	Early Trucker	Baltimore	4.85	5.00	5.15	5.00	1.27		7.37	7.00	33.90	33.40
22274	Excelsior A. A. A.	Baltimore	1.25	1.00	2.24	1.00	.85		7.66	7.00	16.77	13.40
22301	H. G. Dis. Phosphate & Potash	Smithsburg			5.41	5.00	.40		10.88	10.00	15.28	14.00
22855	H. G. Dis. Phosphate & Potash	Baltimore			6.34	6.00	.37		8.67	7.00	14.21	12.30
22237	H. G. Dis. Phosphate & Potash	Baltimore			4.95	5.00	.87		10.89	12.00	14.92	15.80
22238	Retriever Animal Bone Fertilizer	Baltimore	2.42	2.25	4.08	4.00	3.10	4.50	10.69	9.00	27.83	25.60
22270	Special Potato & Tobacco Fert.	Rockville	1.04	1.00	4.45	4.00	1.07		8.40	8.00	19.12	17.60
22171	Tomato Compound	Baltimore	1.60	1.50	5.79	5.00	.80		6.47	6.00	20.27	18.20

a Contains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	A. A. C. Co. (Maryland), Baltimor	**e, Md.**										
22259	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.67	.....	14.30	14.00	$13.00	$12.60
22151	Special Compound	Baltimore	2.42	2.00	8.15	10.00	1.22	.....	8.15	8.00	28.10	27.60
	A.A.C.Co. (Nickerson), Easton, Md.											
22260	Acid Phosphate	Baltimore	.....	.....	.....	.....	1.05	.....	14.49	14.00	13.25	12.60
22796	Dissolved Bone and Potash	Baltimore	.....	.....	5.01	5.00	.92	.....	12.12	12.00	16.10	15.80
22139	Early Queen	Baltimore	4.86	5.00	5.46	5.00	1.45	.....	7.09	7.00	33.99	33.40
22924	Eastern Shore Domestic Guano	Baltimore	1.88	2.00	3.04	3.00	.62	.....	8.32	8.00	20.79	20.60
22800	English Mixture	Baltimore	1.11	1.00	2.16	2.00	.85	.....	8.49	8.00	17.13	15.60
22821	Fish, Bone & Potash	Baltimore	3.02	3.00	4.21	4.00	1.10	.....	8.10	8.00	26.45	25.60
22140	High Grade Vegetable Compound	Baltimore	6.64	7.00	5.45	5.00	2.07	.....	6.47	6.00	40.60	40.20
22917	Mixture	Baltimore	.84	.50	2.56	2.00	.55	.....	8.26	8.00	16.05	13.60
22368	Tomato Fertilizer	Baltimore	.97	1.00	4.02	4.00	.72	.....	8.40	8.00	18.27	17.60
	A. A. C. Co. (Packers Union), Rut	**land, Vt.**										
22278	Universal Fertilizer	Princess Anne	1.09	1.00	4.40	4.00	.82	.....	8.30	8.00	19.05	17.60
	A. A. C. Co. (Reese), Balto., Md.											
22841	Dissolved Phosphate of Lime	Baltimore	.....	.....	.....	..	1.07	.....	14.57	14.00	13.32	12.60
22927	Potato and Truck Special	Baltimore	4.02	4.00	7.65	7.00	.85	.....	8.44	8.00	34.20	32.60
	A. A. C. Co. (Slingluff), Balto., Md.											
22103	Tobacco Plant Bed Fertilizer	Baltimore	9.74	10.00	2.76	2.50	1.07	.....	4.62	4.00	47.69	47.30
22143	Top Dresser	Baltimore	a4.69	5.00	2.82	2.50	.57	.....	5.30	5.00	28.17	28.50
22144	Truckers' Favorite	Baltimore	3.84	3.75	3.33	3.00	1.15	.....	9.35	9.00	30.37	28.80

	A. A. C. Co. (Susquehanna), Balti	**more, Md.**										
22797	Crop Grower	Baltimore	a1.11	1.00	1.25	1.00	.97		7.21	7.00	14.73	13.40
22141	Grain & Grass Producer	Baltimore			3.16	3.00	1.17		12.28	12.00	14.44	13.80
22172	H. G. Phosphate and Potash	Baltimore			5.10	5.00	.87		12.55	12.00	16.57	15.80
22173	Potato & Tobacco Phosphate	Baltimore	2.05	2.00	5.41	5.00	1.30		8.42	8.00	24.23	22.60
22842	Soluble Bone and Potash	Baltimore			2.26	2.00	.52		10.45	10.00	11.77	11.00
22889	Superior Rock Phosphate	Baltimore					.47		14.27	14.00	12.93	12.60
	A. A. C. Co. (Tygert Allen), Phila	**delphia, Pa.**										
22261	Guano 5%	Baltimore	5.03	5.00	5.35	5.00	1.12		7.77	7.00	35.24	33.40
22199	Guano 7%	Baltimore	6.64	7.00	5.37	5.00	1.77		6.10	6.00	39.96	40.20
22806	Standard Brand Phosphate	Baltimore	1.96	2.00	2.03	2.00	.67		8.56	8.00	20.41	19.60
22822	Star Dissolved S. C. Rock	Baltimore					.57		14.73	14.00	13.37	12.60
22279	Star Soluble Phosphate & Potash	Snow Hill			2.28	2.00	.79		10.33	10.00	11.74	11.00
	A.A.C.Co. (Wheeler), Rutland, Vt.											
22126	Bone and Potash	Baltimore			3.62	3.00	.60		12.01	12.00	14.55	13.80
22280	General Crop Grower	Princess Anne,	2.03	2.00	2.26	2.00	.70		8.47	8.00	20.82	19.60
22875	Peerless Acid Phosphate	Baltimore					.27		14.04	14.00	12.69	12.60
22380	Potato Manure	Baltimore	2.53	2.50	3.33	3.00	.85		8.43	8.00	23.91	22.60
22294	Royal Wheat Grower	Pocomoke City	1.11	1.00	2.35	2.00	.75		8.14	8.00	16.86	15.60
22220	Superior Trucker	Baltimore	3.84	4.00	8.36	7.00	.48		9.10	8.00	34.83	32.60
	A. A. C. Co. (Zell), Balto., Md.											
22186	Ammoniated Super-Phosphate	Laurel	2.10	2.00	2.31	2.00	1.00		8.18	8.00	20.93	19.60
22312	Dissolved Phosphate	Cumberland					.50		14.61	14.00	13.25	12.60
22179	Economizer Phosphate	Catonsville	1.04	1.00	2.32	2.00	1.30		8.49	8.00	17.19	15.60
22100	Electric Phosphate	Baltimore			2.03	2.00	.57		11.16	10.00	12.18	11.00
22262	Hustler Phosphate	Baltimore	1.25	1.00	3.47	3.00	.87		9.20	9.00	19.86	17.80
22187	Little Giant	Laurel	1.01	1.00	1.46	1.00	1.05		7.32	7.00	14.70	13.40
22180	Special Compound	Catonsville	3.04	3.00	4.36	4.00	1.02		8.18	8.00	26.75	25.60
	Amer. Fertilizing Co., Balto., Md.											
22899	Ammoniated Bone Compound	Baltimore	1.19	1.00	2.97	2.00	1.22	1.00	7.59	8.00	17.33	16.00
22807	Champion Grain Grower	Baltimore	1.14	1.00	4.60	4.00	1.25	1.00	7.78	8.00	19.00	18.00
22787	Dissolved Bone	Baltimore	1.60	2.00			3.35	1.00	9.58	10.00	19.24	20.40
22381	Double Dissolved Bone & Potash	Baltimore			4.04	4.00	.95	1.00	10.83	10.00	13.98	13.20
22216	Double Extra Bone and Potash	Baltimore			5.17	5.00	1.15	1.00	12.86	12.00	16.97	16.00
22382	Excelsior Guano	Baltimore	a1.96	2.00	5.83	5.00	1.47	1.00	8.02	8.00	23.88	23.00
22111	Fish and Bone Compound	Baltimore	1.95	2.00	3.57	3.00	2.10	1.00	8.02	8.00	21.83	21.00
22808	Formula for Wheat and Corn	Baltimore			5.06	5.00	1.35	1.00	10.25	10.00	14.56	14.20
22263	High Grade Acid Phosphate	Baltimore					1.40	1.00	14.05	14.00	12.93	12.80

a Contains Nitrate.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	American Fertilizing Co., Balto., Md.											
22343	High Grade Acid Phosphate	Dorch. Co. (R.L.W.)	.. ..	.....	.....	.....	2.90	1.00	15.86	16.00	$14.85	$14.60
22344	High Grade Ground Fish	Dorch. Co. (R.L.W.)	11.29	11.00	.....	.....	*7.54	.....	.....	.. ...	38.39	33.00
22264	Potato and Vegetable Compound.	Baltimore	3.75	4.00	b8.54	10.00	1.52	1.00	7.45	6.00	34.80	35.60
22112	Prize Truck Guano	Baltimore	a2.01	2.00	b9.48	10.00	1.32	1.00	7.83	8.00	29.35	30.00
22302	Pure Raw Bone	Hancock	4.68	4.50	.....	.....	*22.62	*22.50	.....	.....	32.29	31.50
22369	Special Compound Guano	Baltimore	.67	.50	4.01	3.00	1.10	1.00	6.82	7.00	15.31	13.80
22286	Special Formula	Baltimore	.85	.50	1.76	1.00	1.50	1.00	7.49	8.00	14.75	13.00
22296	Special Potash Mixture	Baltimore	.....	... ..	4.29	4.00	.72	1.00	8.03	8.00	11.66	11.40
22953	Special Potato Manure	Baltimore	4.76	5.00	6.55	7.00	.60	1.00	6.97	6.00	34.19	34.60
22227	Special Super-Phosphate	Baltimore	....	.....	3.38	3.00	1.00	1.00	9.01	6.00	11.69	8.60
22217	Stable Manure Substitute	Baltimore	a3.05	3.00	4.14	4.00	1.55	1.00	7.42	7.00	25.86	24.80
	Armour Fert. Works, Balto., Md.											
22145	Acid Phosphate	Baltimore	....	.....	.....	.....	1.07	.50	16.59	16.00	15.14	14.50
22115	All Soluble	Baltimore	a3.53	3.50	4.12	4.00	.75	.50	8.57	8.00	28.82	27.80
22881	Ammoniated Bone with Potash	Baltimore	a3.09	3.00	2.61	2.00	.57	.50	6.12	6.00	22.54	21.40
22846	Banner Brand	Baltimore	.....	.....	7.59	8.00	.57	.50	10.16	10.00	16.84	17.10
22230	Bone, Blood and Potash	Baltimore	a5.14	5.00	7.28	7.00	1.00	.50	8.87	8.00	38.88	36.80
22152	Bone Meal	Baltimore	3.05	3.00	.....	. ....	*22.24	*22.50	.....	.. ..	25.54	25.50
22798	Cereal Phosphate	Baltimore	.....	.....	.....	.....	.52	.50	9.60	10.00	8.74	9.10
22890	Crop Grower	Baltimore	1.04	1.00	2.81	2.00	.62	.50	7.27	8.00	15.94	15.80
22835	Dissolved Animal Bone	Baltimore	1.64	2.00	.....	.....	5.05	.....	12.36	11.00	23.41	21.20
22876	Farmers' Choice	Baltimore	1.09	1.00	2.56	3.00	.67	.50	9.31	9.00	18.36	18.00
22231	Fruit and Root Crop Special	Baltimore	a2.17	2.00	6.39	5.00	.72	.50	8.57	8.00	25.64	22.80
22918	Gold Medal	Baltimore	a2.51	2.50	3.18	3.00	.80	.50	8.60	8.00	23.86	22.80

22325	Grain Grower	Fallston	a2.01	2.00	2.46	2.00	1.07					

22325	Grain Grower	Fallston	a2.01	2.00	2.46	2.00	1.07		8.02	8.00	20.55	19.60
22116	High Grade Potato	Baltimore	a2.05	2.00	10.15	10.00	.75	.50	8.29	8.00	28.60	27.80
22375	Manure Substitute	Baltimore	a3.38	4.00	4.32	4.00	.37	.50	7.11	6.00	26.52	27.40
22385	Phosphate and Potash	Baltimore			5.51	5.00	.50	.50	12.02	12.00	16.43	15.90
22815	Phosphate and Potash No. 1	Baltimore			2.24	2.00	.80	.50	10.04	10.00	11.44	11.10
22287	Potato Grower	Baltimore	a3.82	4.00	10.49	10.00	.75	.50	8.02	8.00	35.69	35.80
22108	Royal Ammoniated Bone	Baltimore	1.09	1.00	4.47	4.00	1.37	.50	8.03	8.00	19.02	17.80
22938	Special Mixture	Baltimore	a1.09	.50	1.97	1.00	.30	.50	7 45	8.00	15.39	12.80
22232	Special Trucker	Baltimore	a4.06	4.00	5.56	4.00	.65	.50	8.23	8.00	31.94	29.80
22124	Star Phosphate	Baltimore					.80	.50	14.17	14.00	12.91	12.70
22147	Sure Crop	Baltimore			5.21	5.00	.62	.50	7.80	8.00	12.35	12.30
22891	Tobacco Special	Baltimore	a2.90	3.00	b3.59	3.00	.92	.50	7.91	8.00	25.77	25.40
22117	Tomato Grower	Baltimore	a2.03	2.00	2.94	2.00	1.02	.50	8.04	8.00	21.12	19.80
22233	Truck and Berry Special;	Baltimore	a2.93	3.00	9.89	10.00	.57	.50	9.06	8.00	32.71	31.80
22125	Trucker 7%	Baltimore	a7.22	7.00	5.30	5.00	1.00	.50	6.35	6.00	42.20	40.40
22156	Trucker	Baltimore	a4.81	5.00	5.04	5.00	.70	.50	6.76	7.00	32.67	33.60
22271	Wheat Corn and Oat Special	Gaithersburg	1.04	1.00	1.20	1.00	1.07	.50	7.01	7.00	14.20	13.60
22239	Wheat & Clover	Baltimore			5.29	5.00	.47	.50	10.58	10.00	14.90	14.10
22221	Wheat & Grass Special	Baltimore	a1.08	1.00	4.55	5.00	.97	.50	7.43	7.00	18.18	17.60
	Atlantic Fertilizer Co., Balto., Md.											
22376	Alkaline Mixture	Baltimore			2.31	2.00	1.47		10.08	10.00	11.67	11.00
22377	Arrow Brand Special	Baltimore	.97	1.00	4.21	4.00	1.12		9.38	8.00	19.80	17.60
22177	Big 4, Blood, Bone, Fish & Pot	Baltimore	a3.50	3.00	5.77	6.00	.70		8.35	6.00	30.07	25.20
22378	Crop Producer	Baltimore	a1.11	.50	3.36	2.00	1.05		8.07	8.00	17.90	13.60
22354	Dissolved Bone	White Hall	3.53	2.50			4.60		7.42	12.00	24.86	24.40
22155	Dissolved Phosphate	Baltimore					2.25		15.40	14.00	14.31	12.60
22303	Dissolved Phosphate	Emmitsburg					.78		16.20	16.00	14.74	14.40
22350	Dissolved Phosphate	Benson (G.L.S.)					.90		15.33	16.00	13.98	14.40
22127	Early Truck & Vegetable Manure	Baltimore	a3.91	4.00	5.23	5.00	1.85		6.55	6.00	29.47	28.20
22275	Farmers' Alkaline Mixture	Baltimore			2.15	2.00	1.32		10.02	10.00	11.43	11.00
22801	G.G.G. Golden Grain Grower	Baltimore	2.40	2.00	4.72	4.00	.57		9.02	9.00	25.37	22.80
22288	Gold Medal	Baltimore	a3.04	2.00	3.48	3.00	1.88		8.19	8.00	26.22	20.60
22877	High Grade Potash Compound	Baltimore			5.34	5.00	.63		11.96	12.00	16.23	15.80
22209	H. G. Truck & Potato Special	Baltimore	3.72	4.00	10 74	10.00	1.03		8.57	8.00	36 30	35 60
22314	Jumbo Crop Grower	New Windsor			5.36	5.00	.50		8.20	8.00	12.84	12.20
22923	Matchless A. B. C. Food	Laurel	.68	.50	4.29	3.00	1.00		8.12	8.00	17.15	14.60
22157	Potato & Vegetable Comp. 7%	Baltimore	a6.62	7.00	5.19	5.00	1.32		6.14	6.00	39.57	40.20
22349	Pure Raw Bone	Benson (G. L. S.)	4.53	4.00			*25.52	*20.00			33.43	28.00
22276	Royal Potato & Tomato Manure	Baltimore	a1.95	2.00	5.65	5.00	2.32		6.05	7.00	21.64	21.40
22210	Standard Compound	Baltimore	1.76	2.00	3.08	2.00	1.85		9.61	8.00	22.39	19.60

a Contains Nitrate. b As Sulfate. *Total Phosporic Acid

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Atlantic Fertilizer Co., Balto., Md.											
22277	Truck Grower	Baltimore	a4.95	5.00	5.85	5.00	2.02	.....	6.67	6.00	$34.46	$32.20
22383	X X Special Compound	Baltimore	a1.77	2.00	b10.01	10.00	1.62	.....	8.84	8.00	30.35	29.60
	C. A. Baile & Co., Medford, Md.											
22315	Bone Phosphate No. 3	Medford	1.48	1.25	2.55	2.00	1.32	1.50	10.60	9.50	21.72	19.00
	Balto. Fertilizer Co., Balto., Md.											
22165	Honest Acid Phosphate	Baltimore	.....	.....	.....	.....	3.10	.....	13.33	14.00	12.62	12.60
22290	Honest A. K. Bone	Boyd	.....	.....	3.23	3.00	.40	.....	8.14	8.00	10.64	10.20
22248	Honest Ammoniated Bone	Parkton	2.15	2.00	2.51	2.00	.50	.....	8.57	8.00	21.59	19.60
22830	Honest Bone Phosphate	Baltimore	.63	.25	2.75	1.00	1.07	.....	7.79	7.00	15.05	10.40
22240	Honest Bone and Potash	Baltimore	.....	.....	2.62	2.00	1.40	.....	11.03	10.00	12.83	11.00
22370	Honest Crop Grower	Baltimore	.85	1.00	2.30	1.00	1.25	.....	10.29	8.00	18.55	14.60
22265	Honest Guano 7%	Baltimore	a6.52	7.00	5.83	5.00	.55	.....	6.94	6.00	40.46	40.20
22871	Honest Harvest	Baltimore	1.36	1.25	2.39	2.00	.57	.....	9.11	8.00	18.99	16.60
22142	Honest Potato Grower	Baltimore	2.20	2.00	6.93	8.00	2.37	1.00	7.62	6.00	25.82	23.60
22222	Honest Revenue	Baltimore	2.95	3.00	6.43	6.00	.60	.....	7.67	7.00	27.67	26.40
22878	Honest Standard	Baltimore	1.27	1.25	4.07	3.00	.52	.....	10.02	10.00	21.38	20.00
22223	Honest Success	Baltimore	1.01	1.00	4.55	4.00	.97	1.00	7.21	7.00	17.63	16.80
22133	Honest Trucker	Baltimore	a4.44	5.00	5.48	5.00	1.22	.....	6.89	6.00	32.00	32.20
22234	Old Honesty	Baltimore	a.73	.50	3.02	2.00	1.47	1.00	8.52	8.00	16.75	14.00
	Balto. Pulverizing Co., Balto., Md.											
22816	Ammoniated Butchers Bone	Baltimore	1.38	1.50	2.08	1.50	1.17	.....	10.11	9.00	20.20	18.30
22200	Farmers' Favorite Fertilizer	Baltimore	1.28	1.00	.....	.....	1.02	.....	5.91	5.50	12.62	10.60

	Balto. Pulverizing Co., Balto., Md.											
22297	General Crop Grower	Baltimore	1.40	1.00	3.77	3.00	1.10		7.54	7.00	18.86	15.40
22247	High Grade Compound	Parkton	a2.10	2.00	2.77	2.00	1.40		8.08	8.00	21.43	19.60
22371	Penniman's Excelsior	Baltimore			3.32	2.60	1.07		9.72	10.00	12.28	11.60
22104	Potato Guano 7%	Baltimore	6.59	7.00	5.22	4.00	.87		7.18	5.00	40.55	38.00
22211	Pure Dissolved Animal Bone	Baltimore	1.64	2.00			1.45		14.33	12.00	24.34	22.40
22158	Special Potato Mixture	Baltimore	2.51	2.00	4.78	4.00	1.32		5.92	5.00	22.45	18.00
22118	Trucker's Choice	Baltimore	3.48	3.00	2.28	1.50	1.15		8.45	8.00	26.80	23.10
	Baugh & Sons Co., Baltimore, Md.											
22128	Acid Phosphate 16%	Baltimore					1.00		16.52	16.00	15.07	14.40
22194	Ammoniated Soluble Alkaline	Baltimore	.94	.50	2.34	2.00	.75		8.28	8.00	16.34	13.60
22174	Animal Bone & Potash Compound	Baltimore	2.13	2.00	2.44	2.00	1.00		8.32	8.00	21.34	19.60
22224	Complete Animal Bone Fertilizer	Baltimore	2.06	2.00	5.86	5.00	.97		9.01	8.00	25.30	22.60
22389	Double Eagle $25 Phosphate	Towson	a2.03	2.00	1.46	1.00	.62		9.28	8.50	20.97	19.20
22134	Excelsior Guano	Baltimore	1.14	1.00	4.27	4.00	1.12		8.08	8.00	18.98	17.60
22148	Farmers' Friend Guano	Baltimore	4.64	5.00	5.82	5.00	.97		7.27	6.00	33.49	32.20
22254	Fine Ground Bone	Rockville	3.91	3.00			*21.07	*16.49			28.28	21.89
22944	Fish, Bone and Potash	Baltimore	3.41	4.00	5.36	4.00	.70		8.11	8.00	29.01	29.60
22907	Fish Mixture	Baltimore	a2.01	2.00	2.65	2.00	.70		8.18	8.00	20.79	19.60
22936	General Crop Grower		1.18	1.00	1.26	1.00	.42		8.04	8.00	15.80	14.60
22942	Grand Rapid H. G. Truck Guano		3.03	3.00	3.41	3.00	1.05		8.82	8.00	26.53	24.60
22135	High Grade Acid Phosphate	Baltimore					.47		15.46	14.00	14.00	12.60
22255	High Grade Cotton & Truck Guano	Rockville	2.17	2.00	2.58	2.00	1.85		11.35	10.00	25.62	22.00
22304	High Grade Potash Mixture	Smithsburg			4.84	4.00	.92		10.40	10.00	14.38	13.00
22908	High Grade Tobacco Guano	Baltimore	2.93	3.00	2.89	3.00	.42		8.38	8.00	24.84	24.60
22123	High Grade Truck Guano	Baltimore	3.05	3.00	3.58	3.00	1.12		8.02	8.00	25.85	24.60
22105	New Process 10% Guano	Baltimore	a9.06	10.00	3.26	2.50	.40		5.90	5.00	46.74	48.50
22305	One Quarter Mixture	Lydia	2.05	1.75	3.75	3.00	4.38		9.12	12.00	24.64	24.40
22235	Peninsula Grain Producer	Baltimore	1.64	1.21	3.13	2.00	.60		8.39	8.00	20.00	16.44
22175	Peruvian Guano Substitute	Baltimore	a5.17	5.00	7.85	7.00	.40		6.55	6.00	36.55	34.20
22136	Phosphate & Potash 10 & 5	Baltimore			5.08	5.00	1.22		10.51	10.00	14.78	14.00
22218	Phosphate & Potash 12 & 5	Baltimore			5.44	5.00	1.68		12.41	12.00	16.95	15.80
22110	Potato Ouano 7%	Baltimore	a6.84	7.00	5.49	5.00	.57		6.36	6.00	40.71	40.20
22353	Potato Phosphate	North East (R.T.G.)	2.13	2.00	10.94	10.00	1.70		6.33	5.00	27.74	24.00
22149	Potato and Truck Special	Baltimore	3.60	3.50	7.05	7.00	.55		7.16	7.00	30.26	29.40
22379	Pure Bone & Muriate Potash Mix	Baltimore	3.40	3.00	4.71	5.00	*15.56	*15.00			27.65	26.00
22201	Pure Dissolved Animal Bone	Baltimore	2.83	2.50			2.22		13.43	13.00	28.33	25.60
22166	Pure Raw Bone Meal	Baltimore	4.74	4.50			*20.83	*21.50			31.46	30.90
22351	Pure Raw Bone Meal	North East (R.T.G.)	4.51	4.50			*21.53	*21.50			30.96	30.90

a Contains Nitrate. b As Sulfate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Baugh & Sons Co., Baltimore, Md.											
22256	Soluble Alkaline Super-Phosphate	Rockville	.....	.....	2.39	2.00	1.30	.....	9.89	10.00	$11.55	$11.00
22202	Special Alkaline 8 & 5	Baltimore	....	.....	5.80	5.00	1.68	.....	9.10	8.00	14.33	12.20
22181	Special Potato Manure	Ellicott City	2.06	2.00	10.27	10.00	.65	.....	5.18	5.00	24.99	24.00
22926	Strawberry Mixture	Baltimore	2.22	3.00	6.23	5.00	.52	.....	7.66	7.00	24.51	25.40
22114	Tomato Compound	Baltimore	2.05	2.00	2.29	2.00	.92	.....	8.39	8.00	20.93	19.60
22386	Wheat Fertilizer	Baltimore	2.05	2.00	3.30	2.00	.72	.....	8.05	8.00	21.45	19.60
	Beck-Walker Co., Chestertown, Md.											
22396	Corn Super-Phosphate	Chestertown	a.85	1.00	4.65	4.00	1.42	.....	8.06	8.00	18.29	17.60
22397	Food Drilling 10—5	Chestertown	.....	.....	5.10	5.00	1.07	.....	10.15	10.00	14.45	14.00
22398	Try Me Super-Phosphate	Chestertown	a.65	.50	3.81	3.00	1.87	.....	8.73	9.00	17.64	15.80
	Berg Company, Philadelphia, Pa.											
22195	Electric Raw Bone Fine	Annapolis	4.47	d4.86	.....	.....	*22.94	*22.00	.....	.....	31.64	32.64
22939	High Grade Potato Manure	Annapolis	a3.62	d4.86	9.16	12.00	2.15	.....	9.49	9.00	35.89	42.24
22331	Pure Dissolved Bone & Potash	Providence	a2.71	c3.65	5.07	6.00	2.22	.....	10.37	11.00	29.24	33.80
22197	Special Bone Manure	Annapolis	1.71	e3.04	3.18	4.00	3.42	3.00	9.84	9.00	23.20	28.16
22188	S. B. M. Standard Bone Manure	Baltimore	a3.53	c3.65	5.93	6.00	3.35	.....	8.92	8.00	32.09	30.20
22919	Tobacco Manure	Annapolis	a3.19	d4.86	6.49	8.00	2.42	.....	10.14	9.00	32.39	38.24
22326	Vigor Volo Bone and Potash	Perryman	1.91	c3.65	5.79	6.00	4.44	.....	10.03	8.00	27.25	30.20
22339	Vigor Volo Bone and Potash	Rising Sun	2.11	c3.65	6.53	6.00	4.30	.....	9.57	8.00	27.17	30.20
	W. H. Bixler, Hagerstown, Md.											
22306	Bone Phosphate	Hagerstown	1.40	1.50	4.55	2.50	1.27	.....	8.77	8.00	21.18	18.10

	Bowker Fert. Co., Boston, Mass.											
22289	Soluble Phosphate	Baltimore					1.15		14.65	14.00	13.42	12.60
	H. Bryant's Son, Alexandria, Va.											
22257	Alkaline Bone Mixture	Dickerson			2.65	2.00	.70		9.84	10.00	11.65	11.00
22291	Corn King	Bethesda	1.01	1.25	2.13	2.00	.50		8.98	8.00	17.15	16.60
22272	Empress Ammoniated Dis. Bone.	Muddy Branch	1.04	1.00	1.22	1.00	.72		8.41	8.00	15.76	14.60
22292	Genuine Fish, Bone and Potash.	Potomac	2.03	2.00	3.60	3.00	.65		8.90	8.00	22.66	20.60
22258	High Grade Bone Phosphate	Derwood			3.28	4.00	.57		10.01	10.00	12.40	13.00
22293	Matchless Corn & Oat Producer.	Bethesda	a1.88	2.00	2.37	2.00	.37		8.35	8.00	20.06	19.60
	Central Chemical Co., Hagerstown, Md.											
22929	Commonwealth	Hagerstown			2.58	2.00	.47		10.21	10.00	11.86	11.00
	Chesapeake Chem. Co., Balto., Md.											
22359	Alkaline 12 & 5	Baltimore			5.52	5.00	2.15		11.41	12.00	16.22	15.80
22307	Celebrated Mixture	Emmitsburg			2.44	2.00	1.25		10.93	10.00	12.53	11.00
22933	Corn and Buckwheat				2.93	3.00	1.27		11.58	6.00	13.60	8.40
22107	Dissolved Phosphate 14%	Baltimore					.85		15.54	14.00	14.16	12.60
22241	Dissolved Phosphate 16%	Baltimore					.50		16.16	16.00	14.64	14.40
22365	Excelsior Fertilizer	Providence	a2.92	3.00	4.28	4.00	1.10		8.62	8.00	26.74	25.60
22934	Farmers' Favorite		a1.89	1.00	6.38	4.00	.92		7.67	7.00	23.51	16.40
22137	Fish Guano	Baltimore	a3.03	3.00	2.95	3.00	1.30		8.60	8.00	25.91	24.60
22366	Raw Bone	Fair Hill	3.94	4.50			*24.43	*22.00			30.42	31.20
22308	Reliable Phosphate	Emmitsburg			4.28	4.00	.82		11.44	10.00	14.74	13.00
	H. Cope & Co., Lincoln Univ., Pa.											
22332	Ammoniated Bone Phosphate	Rising Sun	a1.26	1.00	2.65	2.00	.65		8.05	8.00	17.61	15.60
	J. Cope & Co., Balto., Md.											
22212	Acidulated Phosphate	Baltimore					1.15		12.27	14.00	11.27	12.60
22327	Ammoniated Phosphate	Conowingo	a.94	1.00	3.46	3.00	1.00		10.81	8.00	20.59	16.60
22159	High Grade Phosphate & Potash.	Baltimore			5.16	5.00	.92		10.08	10.00	14.41	14.00
22333	Potato and Tobacco Phosphate	Rising Sun	a.97	1.00	7.03	7.00	.72		10.92	10.00	24.30	23.00
22334	Pure Bone Phosphate	Rising Sun	2.41	2.25	4.37	4.00	2.57	4.50	10.98	9.00	28.22	25.60
22189	Try Me Fertilizer	Baltimore	2.13	2.00	4.25	4.00	1.00		8.34	8.00	23.18	21.60
22160	Wheat and Grass Special	Baltimore	1.09	1.00	1.10	1.00	1.45		8.21	8.00	15.89	14.60
	L. E. P. Dennis & Son, Crisfield, Md.											
22281	Fish and Potash Mixture No. 1	Crisfield	a3.23	3.00	5.66	5.00	.30		7.85	7.00	28.12	25.40
22249	Fish and Potash Mixture No. 2	Stockton	2.18	2.00	3.59	3.00	.72		7.06	7.00	21.07	19.40
22250	Klondike Fish & Potash Mixture.	Stockton	1.26	1.00	3.51	3.00	.60		8.14	8.00	18.56	16.60
22251	Special Round Potato Mixture	Stockton	a4.90	5.00	6.53	6.00	.55		6.94	6.00	34.68	33.20

a Contains Nitrate. * Total Phosphoric Acid. c Nitrogen 3%=Ammonia 3.65%. d Nitrogen 4%=Ammonia 4.86%. e Nitrogen 2½%=Ammonia 3.04%

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	J. W. Dorsey, Ellicott City, Md.											
22182	Mixture "D"	Ellicott City	2.32	2.25	4.48	4.00	1.52	1.50	9.34	9.00	$25.58	$24.40
	Dudley & Carpenter, Balto., Md.											
22946	California Tobacco Compound	Baltimore	4.21	4.00	3.28	2.00	.60		8.96	8.00	31.11	27.60
22106	Special Tobacco Plant Guano	Baltimore	10.02	10.00	2.89	3.00	1.72		5.44	5.00	50.19	49.00
22387	Special Wheat Mixture	Baltimore			3.11	3.00	1.02		12.32	12.00	14.40	13.80
	Edelen Bros., Baltimore, Md.											
22121	Special Tobacco Bed 10%	Baltimore	a8.91	10.00	4.32	3.00	1.37		5.12	4.00	46.65	47.80
22900	Special Tobacco Guano	Baltimore	a3.50	3.00	2.94	3.00	1.10		9.80	8.00	29.14	24.60
22823	Special Wheat & Grain Mixture	Baltimore	a1.19	1.00	2.30	2.00	.80		9.40	9.00	18.66	16.80
	J. A. Englar, Linwood, Md.											
22316	Ammoniated Bone Phos. No. 1	Linwood	1.91	2.00	2.66	1.50	1.02		9.51	9.50	22.12	20.90
22317	Ammoniated Bone Phos. No. 2	Liberty	1.42	1.00	3.04	2.40	.75		9.58	9.80	20.52	18.16
	Eureka Fert. Co., Perryville, Md.											
22335	Alkaline No. 2	Rising Sun			2.25	2.00	2.82		11.88	10.00	13.50	11.00
22328	Corn and Potato Special	Perryman	1.13	1.00	3.41	3.00	2.12		7.97	9.00	18.34	17.80
22367	Fish and Potash	Aikin	.58	.50	1.60	1.00	2.00		8.63	8.00	15.08	12.60
22329	High Grade Trucker	Perryman	1.72	2.00	9.34	10.00	.75		9.95	8.00	28.46	27.60
22330	Imperial Bone Phosphate	Perryman	1.25	1.00	2.19	1.00	1.00		8.18	8.00	17.41	14.60
22336	P. & P. Super-Phosphate	Rising Sun					2.70		13.11	14.00	12.34	12.60
22337	Potato and Vegetable	Rising Sun	a1.69	2.00	4.31	4.00	1.60		7.98	8.00	21.29	21.60
	W. S. Farmer & Co., Balto., Md.											
22266	Anne Arundel Trucker	Baltimore	4.32	4.50	7.26	7.00	1.02		8.66	8.00	35.34	34.60

22242	B. & P. Phosphate	Baltimore			2.66	2.00	.72		8.09	10.00	10.08	11.00
22205	Clyde Brand	Baltimore	1.09	1.00	2.41	2.00	1.02		8.26	8.00	17.09	15.60
22213	Dissolved S. C. Phosphate	Baltimore					.97		14.03	14.00	12.82	12.60
22309	Empire Alkaline Phosphate	Cumberland			5.05	5.00	.65		10.46	10.00	14.59	14.00
22395	Fish Mixture	Sharptown	1.96	2.00	2.14	2.00	.85	1.00	8.54	8.00	20.57	20.00
22101	Harvest Queen	Baltimore	1.45	1.25	3.21	3.00	1.15		9.58	9.00	20.97	18.80
22310	Pelican Guano	Cumberland	.63	.50	2.80	3.00	.50		6.51	6.00	13.33	12.20
22102	Potato Guano 7%	Baltimore	6.93	7.00	5.36	5.00	1.35		6.62	6.00	41.56	40.20
22206	Potato and Tobacco Phosphate	Baltimore	2.15	2.00	10.08	10.00	1.15		8.33	8.00	29.14	27.60
22925	Rival Crop Grower	Baltimore	1.01	1.00	1.37	1.00	.75		7.70	7.00	14.95	13.40
22203	Standard Phosphate	Baltimore	2.66	2.63	2.85	2.50	1.02		11.03	10.00	27.14	25.02
22167	Top Dresser	Baltimore	a5.14	5.00	3.43	2.50	.65		5.07	5.00	30.33	28.50
22176	Truckers' Compound	Baltimore	3.09	3.00	4.48	4.00	.75		8.84	8.00	27.75	25.60
	Farmers' Fert. Co., U. Bridge, Md.											
22318	Bone Phosphate No. 1	Union Bridge	a1.79	1.50	2.90	2.25	1.85		8.97	8.00	21.56	17.85
22319	Potash Phosphate	Union Bridge			5.27	5.00	.60		8.03	8.00	12.62	12.20
22320	Union Bridge Favorite	Union Bridge	a1.50	1.00	2.95	2.00	1.50		9.32	8.00	20.73	15.60
	Farmers' Fert. & Feed Co., Westminster, Md.											
22321	Acid Phosphate	Westminster					.70	2.00	16.06	16.00	14.59	14.80
22322	Carroll Bone Phosphate	Westminster	.82	.75	3.52	2.00	.47	1.00	6.62	7.00	14.93	13.80
22323	XX Bone Phosphate	Finksburg	1.02	1.00	3.83	3.00	.62	1.00	9.57	9.00	19.64	18.20
	Farmers' & Planters' Co., Salisbury, Md.											
22252	Fish Mixture	Newark	1.66	2.00	2.58	2.00	.67		9.55	8.00	20.95	19.60
22282	General Crop Grower	Salisbury	.87	1.00	2.63	2.00	.65		10.38	10.00	18.83	18.00
22940	Special Fish Mixture	Salisbury	a1.69	2.50	4.48	5.00	.08		8.70	8.00	21.71	24.60
	J. W. Freeman, Great Mills, Md.											
22836	Crop Grower	Baltimore	1.33	1.00	1.49	1.00	.82	1.50	8.25	8.00	17.04	15.20
	J. J. George & Co., Balto., Md.											
22882	Red Special Mixture No. 2	Baltimore	a1.67	2.00	4.11	3.00	.92		8.11	8.00	20.89	20.60
	German Kali Works, Balto., Md.											
22311	Genuine German Kainit	Easton			13.56	12.00						
22892	Muriate of Potash	Baltimore			50.40	50.00						
22893	Nitrate of Soda	Baltimore	a18.63	f18.22								
22894	Sulfate of Potash	Baltimore			48.55	48.00						
	Griffith & Boyd Co., Balto., Md.											
22937	Accomac Trucker	Baltimore	a4.33	5.00	5.33	5.00	1.12		6.68	6.00	31.12	32.20
22324	Ammoniated Bone Phosphate	Union Mills	3.04	2.00	2.68	2.00	1.07	1.00	8.02	8.00	24.89	20.00

a Contains Nitrate. *Total Phosphoric Acid. f Nitrogen 15%=Ammonia 18.22%.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Griffith & Boyd Co., Balto., Md.											
22267	Farmer's Potato Manure	Baltimore	1.26	1.00	9.36	9.00	1.80	.....	7.62	8.00	$24.26	$22.60
22161	Fish, Bone and Potash	Baltimore	1.83	1.75	3.34	3.00	2.35	.....	7.53	7.00	20.64	18.40
22268	Fruit and Root Compound	Baltimore	a2.32	2.50	5.48	6.00	2.12	.....	8.32	7.00	25.59	24.40
22131	Gem Phosphate	Baltimore	.....	.....	2.73	3.00	1.37	.75	10.04	6.00	12.04	8.55
22837	Gilt Edge Crop Guano	Baltimore	1.72	2.00	7.74	10.00	2.20	.....	8.91	8.00	26.19	27.60
22204	Guano 7%	Baltimore	a7.02	7.00	3.12	5.00	1.60	.....	5.28	5.00	38.18	39.00
22138	Harvest Queen Phosphate	Baltimore	1.21	1.00	3.05	3.00	1.60	.....	9.38	9.00	19.79	17.80
22392	High Grade Acid Phosphate	Colora	.....	.....	.....	.....	2.45	.....	14.03	14.00	13.12	12.60
22393	Original Super-Phosphate	Elk Mills	.....	.....	.....	.....	1.70	1.00	14.53	12.00	13.42	11.00
22162	Peerless Fertilizer	Baltimore	.53	.35	2.62	2.00	2.12	.....	8.02	8.00	15.21	13.00
22163	Potato Guano 7%	Baltimore	a6.50	7.00	5.34	5.00	1.81	.....	6.02	6.00	39.28	40.20
22388	Pure Dissolved Animal Bone	Towson	2.56	2.50	.....	.....	1.60	.....	11.12	10.00	24.22	22.00
22394	Pure Fine Ground Bone Meal	Colora	3.94	4.00	.....	.....	*19.41	*22.00	.....	.....	27.41	29.20
22243	Royal Potash Guano	Baltimore	.84	1.00	4.04	4.00	1.50	.....	8.54	8.00	18.25	17.60
22883	Soft Ground Bone Meal	Baltimore	3.07	3.00	.....	.....	*13.48	*11.00	.....	.....	20.37	18.60
22859	Soluble Mixture 12 and 5	Baltimore	.....	.....	4.91	5.00	1.70	.....	11.86	12.00	15.92	15.80
22847	Special Grain Grower	Baltimore	.....	.....	2.85	2.00	1.80	.....	10.03	10.00	12.24	11.00
22338	Spring Crop Grower	Rising Sun	2.05	2.00	6.36	4.50	2.15	.....	6.60	6.50	23.34	20.30
22119	Stable Manure Substitute	Baltimore	3.23	3.50	4.14	4.00	1.25	.....	7.39	5.00	26.43	24.00
22901	Standard Potash Compound	Baltimore	.....	.....	5.02	4.00	1.97	.....	9.91	10.00	14.33	13.00
22384	Valley Fertilizer	Baltimore	.72	.50	2.90	3.00	1.50	.....	9.36	8.00	17.61	14.60
22120	Vegetable Bone	Baltimore	3.19	3.00	7.51	7.00	1.90	.....	7.17	8.00	29.63	28.60
22225	XX Potash Manure	Baltimore	.....	.....	5.07	5.00	1.82	.....	10.36	10.00	14.75	14.00
	Griffith & Turner Co., Balto., Md.											

	Griffith & Turner Co., Balto., Md.											
22941	Ammoniated Alkaline Plant Food	.....	1.30	1.00	3.17	1.50	3.90	1.00	6.78	6.50	18.07	13.70
22360	Ammoniated Butchers Bone Phos.	Baltimore	1.02	1.25	3.14	1.50	2.27	.....	7.74	9.00	17.42	17.30
22361	Animal Bone Phosphate	Baltimore	a2.56	2.50	3.07	1.50	1.97	1.00	7.79	10.00	23.45	23.90
22362	Blood, Bone and Potash Mixture.	Baltimore	4.50	5.00	5.81	7.00	1.10	.....	7.81	8.00	33.62	36.60
22363	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	1.57	.....	15.04	14.00	13.85	12.60
22364	Soft Ground Bone	Baltimore	2.03	2.00	.....	.....	*17.76	*21.00	.....	.....	18.78	20.60
22226	Special Potato Mixture	Baltimore	1.02	1.00	5.37	5.00	1.50	.....	8.91	8.00	20.74	18.60
	Hampstead Fertilizer Co., Hampstead, Md.											
22661	Grain and Grass Grower	Hampstead	a1.77	2.00	2.72	2.00	.75	.....	8.29	8.00	20.05	19.60
22662	Honesty	Hampstead	a.85	1.00	2.81	2.00	.80	.....	8.13	8.00	16.29	15.60
22663	Standard	Hampstead	1.16	1.25	3.79	3.00	.47	.....	9.81	10.00	20.39	20.00
	J. B. Henderson, Nandua, Va.											
22455	High Grade Potato Guano 7%	Baltimore	a4.50	5.00	7.09	7.00	1.20	.....	5.91	6.00	32.66	34.20
	S. M. Hess & Bro., Phila., Pa.											
22762	Ammoniated Super-Phosphate	Leslie	2.01	2.00	2.31	2.00	.87	.....	8.68	8.00	21.12	19.60
22777	Farmers' Cereal King	Baltimore	.....	.....	2.60	3.00	.97	.....	12.08	12.00	13.66	13.80
22464	Fish and Potash Manure	Baltimore	2.03	2.00	3.24	3.00	1.62	.....	8.17	8.00	21.81	20.60
22790	Ground Bone	Baltimore	4.50	4.00	.....	.....	*21.85	*20.59	.....	.....	31.11	28.35
22465	High Grade Trucking Manure	Baltimore	7.20	7.00	5.42	5.00	1.05	.....	7.13	6.00	43.20	40.20
22466	Keystone Phosphate	Baltimore	1.09	1.00	1.40	1.00	1.27	.....	8.26	8.00	16.18	14.60
22522	Peerless Phosphate	Baltimore	.....	.....	5.22	5.00	.95	.....	12.39	12.00	16.56	15.80
22460	Potato and Truck Manure	Baltimore	2.90	3.00	6.64	6.00	.55	.....	9.59	8.00	29.97	27.60
22860	Soluble Phosphate and Potash	Baltimore	.....	.....	2.48	2.00	.55	.....	10.34	10.00	11.90	11.00
22512	Special Compound	Baltimore	1.11	1.00	4.26	4.00	.97	.....	8.12	8.00	18.83	17.60
22552	Special Corn Manure	Baltimore	1.02	1.00	2.26	2.00	.85	.....	8.47	8.00	16.84	15.60
22467	Special Potato Manure	Baltimore	3.72	4.00	7.14	7.00	1.70	.....	8.04	8.00	32.35	32.60
22553	Superior Potash Mixture	Baltimore	1.91	2.00	9.21	10.00	1.22	.....	8.84	8.00	27.95	27.60
	W. H. Hood, Mt. Airy, Md.											
22664	Special Mixture	Mt. Airy	1.21	1.00	2.80	2.00	2.32	.....	8.82	9.00	19.15	16.80
	Home Fert. & Ch. Co., Balto., Md.											
22839	Boykin's H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	.20	1.00	15.95	14.00	14.40	12.80
22884	Champion Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.50	1.00	16.57	16.00	15.01	14.60
22803	Matchless Guano	Baltimore	a2.05	2.00	4.91	4.00	.47	.....	8.47	8.00	23.46	21.60
22949	Potato Special	Baltimore	a2.06	2.00	10.54	10.00	.55	.....	7.79	8.00	28.35	27.60
22824	Riosa Tobacco Compound	Baltimore	3.29	3.00	3.83	3.00	.60	.....	8.02	8.00	26.85	24.60
22840	Yancey's Formula	Baltimore	2.40	3.00	2.15	2.00	1.00	.....	9.95	8.00	24.09	23.6

a Contains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Horsey, Roe & Co., Greensboro, Md.											
22749	Corn and Tomato Fertilizer	Greensboro	1.35	1.00	4.23	4.00	2.45	1.75	8.45	8.00	$20.75	$18.30
22867	Rock and Potash 12 and 5	Greensboro	.....	.....	5.36	5.00	.05	.....	12.94	12.00	17.02	15.80
22750	Special Pea Fertilizer	Greensboro	a3.22	3.50	5.57	5.00	.87	2.00	9.44	7.00	30.13	28.20
22751	Special Potato	Greensboro	a4.54	5.00	5.44	5.00	1.15	2.50	9.88	7.00	35.92	34.40
	Hubbard Fert. Co., Baltimore, Md.											
22879	Alkaline 12 & 5	Baltimore	.....	.....	5.64	5.00	.65	.....	11.83	12.00	16.42	15.80
22513	Alkaline 12 & 3	Baltimore	.....	.....	4.47	3.00	1.50	.....	10.84	12.00	14.53	13.80
22699	Beckley's Crop Grower	Halfway	.80	1.00	4.33	4.00	1.22	.....	9.70	10.00	19.66	20.00
22679	B. & P. 10—2	Conowingo	.....	.....	2.24	2.00	1.32	1.75	11.11	10.00	12.50	11.35
22580	Climax Phosphate	Parkton	1.14	1.00	4.42	4.00	.90	.....	7.37	7.00	18.18	16.40
22665	Columbia Gem	Sykesville	.61	.50	2.84	2.00	1.12	2.00	8.08	8.00	15.43	14.40
22491	Farmers' I. X. L.	Baltimore	1.88	2.00	3.18	2.00	1.80	.....	7.83	8.00	20.82	19.60
22439	Jersey Trucker	Baltimore	a2.03	2.00	10.59	10.00	1.07	2.0.	7.86	8.00	28.57	28.40
22581	Jewel Phosphate	Hydes	1.35	1.25	5.04	5.00	1.75	.....	8.01	8.00	20.75	19.60
22636	Oriental Phosphate	Hancock	a.89	1.00	3.10	2.00	1.40	1.75	7.24	8.00	15.91	16.30
22609	Phosphate 14%	Gaithersburg	.....	.....	... .	.....	1.05	2.00	14.03	14.00	12.84	13.00
22637	Phosphate 16%	Halfway	.....	.....	.....	... ..	.40	2.00	16.01	16.00	14.49	14.80
22462	Royal Ensign	Baltimore	2.78	3.00	4.37	4.00	1.42	2.00	8.37	8.00	26.10	26.40
22502	Royal Seal 5%	Baltimore	a4.79	5.00	5.55	5.00	1.12	.....	6.26	6.00	32.67	32.20
22932	Royal Seal 7%	Baltimore	a7.73	7.00	4.58	5.00	1.60	.....	6.05	6.00	43.40	40.20
22831	Special Mixture	Baltimore	.....	.....	3.28	4.00	1.37	2.00	11.75	10.00	14.13	13.40
22931	Standard Phosphate	.....	a2.05	2.00	3.32	3.00	.90	2.00	8.03	8.00	21.52	21.40
22582	Warranted Raw Bone	Hydes	4.69	4.50	.....	.....	*24.42	*22.00	.....	.....	33.41	31.20

	M. P. Hubbard & Co., Balto., Md.											
22418	Bermuda Guano 7%	Baltimore	a5.60	7.00	5.59	5.00	.40	1.00	7.71	6.00	37.40	40.60
22776	Celebrated Phosphate	Baltimore	1.93	2.00	3.23	2.00	.87	1.50	8.44	8.00	21.43	20.20
22629	Excelsior Super-Phosphate	Baltimore	.90	1.00	3.18	2.00	1.60	1.50	9.60	8.00	18.94	16.20
22524	Farmers' Acme	Baltimore	1.45	1.00	4.37	4.00	.36	1.00	8.73	8.00	20.79	18.00
22630	Fish, Bone and Potash	Baltimore	.48	.25	2.43	1.00	1.02	1.00	6.09	6.00	12.07	9.60
22902	Harvest King Phosphate	Baltimore	1.18	1.00	3.95	3.00	.65	1.00	9.26	9.00	20.04	18.20
22880	Havana Special	Baltimore	a3.48	3.00	4.30	3.00	.45	1.50	8.43	8.00	28.52	25.20
22915	Maloney's Spe. Wh. & Grass Mix.	Ellicott City	1.76	2.00	3.28	5.00	.85	1.50	11.30	9.00	24.22	24.40
22447	Maryland Spe. Vegetable Grower	Baltimore	a4.02	5.00	4.65	5.00	.75	1.00	8.83	7.00	31.63	33.80
22631	Old Economy	Baltimore	.56	.50	3.86	2.00	1.12	1.00	7.52	8.00	15.57	14.00
22463	Soluble Rock and Potash	Baltimore	.....	.....	2.78	2.00	1.05	1.50	11.33	10.00	13.19	11.30
22468	Soluble S. C. Phosphate	Baltimore	.....	.....	.....	.....	1.15	1.00	14.63	14.00	13.40	12.80
22469	Special Potato and Tomato Fer.	Baltimore	a2.06	2.00	6.02	5.00	1.00	1.00	7.24	7.00	23.35	21.80
22752	Special Potato & Tomato Fer.	Downes	2.40	2.00	4.81	5.00	.62	1.00	8.41	7.00	24.75	21.80
22895	Superior Guano 10% Top Dresser	Baltimore	a8.55	10.00	1.60	2.00	.57	1.00	7.77	6.00	45.35	49.60
22809	XXXX Rock & Potash Mix	Baltimore	.....	.....	6.30	5.00	.72	1.50	10.20	12.00	15.62	16.10
	Independent Fertilizer Co., Balto., Md.											
22912	Vegetable Compound	Baltimore	1.53	2.00	8.29	8.00	1.00	.....	7.08	6.00	23.31	23.20
	S. L. Lamberd Co., Balto., Md.											
22579	Boss Fertilizer	Baltimore	2.05	2.00	4.45	4.25	2.47	.....	7.64	7.00	22.81	20.65
22778	Favorite Fertilizer	Baltimore	1.23	1.00	2.69	2.00	1.75	.....	8.15	8.00	18.09	15.60
22576	Truck Phosphate	Baltimore	3.79	4.00	3.31	4.00	1.30	.....	9.82	7.00	30.77	28.40
	Lister's Agrl. Chem. Works, Newark, N. J.											
22810	Atlas Brand Alkaline Fertilizer	Baltimore	.....	.....	5.08	5.00	1.00	.....	12.12	12.00	16.19	15.80
22885	Bone Meal	Baltimore	3.62	3.25	.....	.....	*25.93	*22.88	.....	.....	30.04	26.73
22470	Buyers' Choice Acid Phosphate	Baltimore	.....	.....	.....	.....	1.27	.....	14.56	14.00	13.35	12.60
22791	Cel. Gr. Bone & Tank Acidulated	Baltimore	3.10	3.25	.....	.....	*11.94	*12.00	.....	.....	19.56	20.20
22527	Corn and Potato Fertilizer	Baltimore	2.03	2.00	3.41	3.00	.70	.....	8.82	8.00	22.39	20.60
22583	Crescent Complete Manure	Boring	2.12	2.00	5.04	5.00	1.07	.....	8.45	8.00	24.09	22.60
22770	Dissolved Phosphate & Potash	Baltimore	.....	.....	2.54	2.00	.70	.....	10.17	10.00	11.83	11.00
22539	"G" Brand	Baltimore	1.19	1.00	4.15	4.00	1.12	.....	8.40	8.00	19.44	17.60
22584	Golden Sheaf	Boring	.65	.50	2.51	2.00	.80	.....	8.03	8.00	15.07	13.60
22528	Harvest Queen Phosphate	Baltimore	1.67	1.50	2.19	2.00	.95	.....	9.32	9.00	20.43	18.80
22402	Potato Manure	Baltimore	5.19	4.00	7.80	7.00	.60	.....	8.14	8.00	38.57	32.60
22514	Special Crop Producer	Baltimore	1.11	1.00	1.44	1.00	.75	.....	7.40	7.00	15.06	13.40
22403	Special 10% Fertilizer	Baltimore	2.06	2.00	9.71	10.00	1.07	.....	8.19	8.00	28.21	27.60
22440	Special Potato Guano 7%	Baltimore	7.01	7.00	5.55	5.00	1.95	.....	6.08	6.00	41.67	40.20

a Contains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Lister's Agr'l Chem. Works, New	**ark, N. J.**										
22680	Special Tomato	Bel Air	2.01	2.00	2.48	2.00	.70	.....	8.75	8.00	$21.30	$19.60
22585	Standard Pure Super-Phosphate	Boring	2.97	3.00	2.31	2.00	1.47	.....	9.15	9.00	25.76	24.80
22766	Tobacco Grower	Baltimore	1.65	1.25	4.22	3.00	.77	.....	8.73	8.00	21.61	17.60
22771	U. S. Super-Phosphate	Baltimore	1.14	1.25	2.34	2.00	1.02	.....	8.10	8.00	17.03	16.60
	McComas Bros., Bel Air, Md.											
22681	High Grade Fertilizer	Bel Air	1.69	1.50	5.04	5.00	1.17	.....	6.82	6.00	20.45	18.20
22682	Standard Fertilizer	Bel Air	1.11	1.00	2.48	2.00	1.55	.....	8.64	8.00	17.91	15.60
	D. B. Martin Co., Philadelphia, Pa.											
22417	Acid Phosphate	Baltimore	.....	.....	.....	.....	1.42	.....	14.07	14.00	12.94	12.60
22503	Bull Head Fertilizer	Baltimore	2.70	3.00	3.18	3.00	1.57	.....	9.21	8.00	25.66	24.60
22448	Claremont Vegetable Grower	Baltimore	3.74	3.00	4.27	5.00	2.35	.....	8.51	7.00	30.38	25.40
22638	Corn and Cereal Special	Cumberland	1.77	2.00	2.32	2.00	1.60	.....	8.71	8.00	20.49	19.60
22598	Crop Producer	Kensington	1.42	1.25	.....	.....	1.75	.....	9.93	10.00	18.30	17.00
22495	Dissolved Organic Phosphate	Laurel	1.38	1.25	2.52	2.00	2.67	.....	9.17	9.00	20.11	17.80
22426	Early Truck & Vegetable Grower	Baltimore	4.11	4.00	8.53	8.00	1.17	.....	6.48	6.00	33.22	31.20
22525	Gilt Edge Potato Manure	Baltimore	2.75	3.00	9.35	10.00	1.10	.....	7.43	7.00	29.71	30.40
22529	Guano 7%	Baltimore	6.95	7.00	5.51	5.00	1.02	.....	6.49	6.00	41.51	40.20
22610	One, Eight and Four	Silver Spring	1.13	1.00	4.28	4.00	1.70	.....	9.65	8.00	21.06	17.60
22916	Potash and Soluble Phosphate	Baltimore	.....	.....	4.94	5.00	.52	.....	12.01	12.00	15 85	15.80
22476	Prize Potato	Baltimore	2.08	2.00	10.69	10 00	1.05	.....	8.31	8.00	29.40	27.60
22599	Pure Dissolved Animal Bone	Kensington	2.24	2.00	.....	.....	1.12	.....	12 41	12.00	24.30	22.40
22482	Pure Ground Bone	Catonsville	2.05	2 00	.....	.....	*23 21	*22.00	.....	.....	22.13	21.20
22561	Pure Ground Bone	Baltimore	2 63	3.00	.....	.....	*22.16	*22.00	.....	.....	23.82	25.20

22540	Pure Raw Bone Meal	Baltimore	4.25	4.50	.....	.....	*21.68	*21.00	.....	.....	30.01	30.60
22621	Special Compound	Baltimore	2.27	2.00	5.57	5.00	.82	.....	8.98	8.00	25.76	22.60
22600	Special Potato Manure	Kensington	1.14	1.00	5.28	5.00	1.25	.....	8.03	8.00	19.98	18.60
22913	Standard Bone Phosphate	Ellicott City	1 96	2.00	4.42	3.00	2.10	.....	11.67	9.00	27.10	21.80
22639	Sure Grower	Cumberland	1 09	1.00	1.68	1.00	1.02	.. ..	7.48	8.00	15.43	14.60
	Martin & White Co., Balto., Md.											
22541	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.40	.. ..	14.05	14.00	12.73	12.60
22753	Acid Phosphate 16%	Centreville	.....	.....	.....	.....	.22	.....	16.55	16.00	14.94	14.40
22586	Big Crop Grower	Baldwin	a2.11	2.00	2.41	2.00	1.65	.....	8.15	8 00	21.29	19.60
22577	Bone, Blood and Potash	Baltimore	a4.16	5.00	6.71	7.00	.40	.....	8.40	8 00	33 59	36.60
22857	Cereal Grower	Baltimore	.58	.50	2.42	2.00	.42	.....	8.55	8.00	15 17	13.60
22542	Dissolved Bone	Baltimore	1.62	2.00	.....	.....	7.02	.....	10.15	10.00	21.47	20.00
22943	Dissolved Bone	Kingsville (W.C.M.)	2.90	2.00	.....	.....	.55	.....	13.54	10.00	28.07	20.00
22587	Fish Guano	Baldwin	a2.13	2.00	3.60	3.00	1.12	.....	8.02	8.00	22.19	20.60
22554	Fruit Special	Baltimore	a2.06	2.00	5.54	5.00	.92	.....	8.39	8.00	24.22	22.60
22526	Grain and Tomato Grower	Baltimore	a1.11	1.00	5.59	5.00	.88	.....	7.30	7.00	19.14	17.40
22543	Manure Substitute	Baltimore	a3.75	4.00	4.58	4.00	.50	.....	9.04	8.00	30.63	29.60
22555	Phosphate and Potash	Baltimore	.....	.....	2.57	2 00	.32	.....	10.46	10.00	12.04	11.00
22588	Phosphate and Potash	Baldwin	.....	.....	5.28	5.00	.27	.....	10.46	10.00	14.74	14.00
22556	Potato Special	Baltimore	a1.84	2.00	9.88	10.00	.73	.....	8.67	8.00	27.93	27.60
22767	Royal Crop Grower	Baltimore	a1.07	1.00	4.08	4.00	.72	.....	8.08	8.00	18.35	17.60
22492	Trucker 7%	Baltimore	a6.13	7.00	5.69	5.00	.92	.....	7.88	6 00	40.04	40.20
22754	Wheat Grower	Centreville	.....	.....	5.01	5.00	.45	.....	8.24	8.00	12.52	12.20
	F. Maynard, Balto., Md.											
22920	High Grade Special Vegetator	Baltimore	5.01	3.00	2.73	2.50	1.25	... ..	7.92	7.00	32.77	22.90
	F. Mehring, Keymar, Md.											
22666	Acid Phosphate	Bruceville	.....	.....	.....	.....	3.70	1.00	15.65	15.00	14.83	13.70
22667	Dissolved Raw Bone	Bruceville	2.05	2.00	.....	.....	.55	1.00	17.32	14.00	29.20	25.20
22668	General Crop Grower	Bruceville	.87	1.00	1.85	1.50	2.80	1.00	12.28	10.00	21.19	17.90
	Miller Fertilizer Co., Balto., Md.											
22483	Acid Phosphate	Ellicott City	.....	.....	.....	.....	.40	.50	15.92	14.00	14.41	12.70
22562	Ammoniated Dissolved Bone	Baltimore	2.20	2.00	2.40	2.00	.50	.50	8.35	8.00	21.42	19.80
22838	Clinch Phosphate	Baltimore	.....	.....	2.38	2.00	.72	.50	10.20	10.00	11.70	11.10
22484	Club Brand	Ellicott City	.65	.50	2.21	2.00	.90	.50	8.34	8.00	15.18	13.80
22486	Dissolved Raw Bone	Ellicott City	2.63	2.50	.....	.....	.75	.50	13.10	11.00	26.54	23.40
22755	Farmer's Profit	Chestertown	1.01	1.00	4.42	5.00	.75	.50	8.86	8.00	19.39	18.80
22404	Ground Bone	Baltimore	4.73	4.50	.....	.....	*21.04	*21.00	.....	.....	31.54	30.60

a Contains Nitrate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Miller Fertilizer Co., Balto., Md.											
22544	Harvest Queen	Baltimore	1.43	1.25	3.02	2.75	1.00	.50	9.46	9.00	$20.49	$18.75
22485	Hustler Phosphate	Ellicott City	1.08	1.00	1.42	1.00	.92	.50	8.44	8.00	16.24	14.80
22414	McAfee's Top Dressing	Baltimore	a5.26	5.00	3.65	2.50	.55	.....	4.42	4.00	30.21	27.30
22622	M. B. S.	Baltimore	1.11	1.00	3.50	3.00	.62	.50	8.82	7.00	18.77	15.60
22872	Potash Mixture	Baltimore	.....	.....	5.06	5.00	.47	.50	10.05	10.00	14.20	14.10
22504	Potato and Vegetable Grower	Baltimore	2.06	2.00	4.38	4.00	.60	.50	8.39	8.00	22.93	21.80
22456	Potato & Vegetable Grower No. 1	Baltimore	a4.45	4.50	7.22	7.00	.57	.50	8.32	8.00	35.23	34.80
22487	Special Potato Fertilizer	Ellicott City	1.09	1.00	5.64	5.00	.65	1.00	7.45	7.00	19.20	17.80
22811	Special Tobacco Grower	Baltimore	2.10	2.00	4.31	4.00	.60	.50	8.64	8.00	23.32	21.80
22832	Special Tomato Grower	Baltimore	1.72	2.00	2.01	2.00	1.52	.50	8.81	8.00	20.07	19.80
22457	Standard Phosphate	Baltimore	3.02	3.00	3.51	3.00	.70	.50	8.18	8.00	25.69	24.80
22405	W. G. Phosphate	Baltimore	.73	.50	1.22	1.00	.75	.50	7.46	7.00	13.39	11.60
	Miller & Cramer, Woodsboro, Md.											
22640	Maryland Sun Guano	Woodsboro	.73	.50	1.47	1.00	1.32	1.00	7.89	8.00	14.39	13.00
	J. B. Nichols & Son, Balto., Md.											
22433	Farmers' Friend Fertilizer	Baltimore	a4.56	4.00	4.03	4.00	2.42	.....	7.51	7.00	32.25	28.40
	Nitrate Agencies Co., Norfolk, Va.											
22768	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.80	1.00	14.25	14.00	12.99	12.80
	G. Ober & Sons Co., Baltimore, Md.											
22427	Avondale Ammoniated Dis. Bone	Baltimore	a2.20	2.00	2.70	2.00	1.40	.....	9.39	8.00	23.33	19.60
22430	Complete Vegetable Fertilizer	Baltimore	a6.48	5.00	7.18	7.00	1.37	.....	6.66	6.00	41.64	34.20
22921	Dissolved Animal Bone	Baltimore	3.58	3.00	.....	.....	2.07	.....	13.61	10.00	31.48	24.00

22416	Dissolved Bone Phosphate	Baltimore	.....	.....	.....	.....	.57	.....	14.86	14.00	13.48	12.60
22956	Farmers' Mixture	Baltimore	a1.06	1.00	2.18	2.00	1.50	.....	10.25	9.00	19.32	16.80
22431	Farmers' Standard Am. Phos	Baltimore	a2.01	2.00	2.51	2.00	.52	.....	9.47	9.00	22.12	20.80
22432	Fish, Bone and Potash	Baltimore	a2.97	3.25	4.62	3.50	1.15	.....	8.35	8.00	26.98	26.10
22410	Fish and Potash Fertilizer	Baltimore	a1.95	2.00	2.25	2.00	.85	.....	9.97	9.00	22.35	20.80
22615	Fruit and Vine Fertilizer	Salisbury	2.61	2.50	b10.10	10.00	.45	.....	6.93	6.00	31.06	29.20
22458	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.52	.....	17.61	16.00	15.95	14.40
22545	Independent Ammon. Super-Phos	Baltimore	1.59	1.00	1.04	1.00	.50	.....	8.43	8.00	17.72	14.60
22655	Ox Head Fertilizer	Easton	.46	.50	2.33	2.00	1.85	.....	8.08	8.00	14.61	13.60
22471	Pure Bone Meal	Baltimore	3.12	3.00	.....	.....	*24.64	*22.00	.....	.....	27.26	25.20
22792	Pure Raw Bone Meal	Baltimore	4.72	4.50	.....	.....	*21.36	*21.00	.....	.....	31.70	30.60
22623	Soluble Am. Super-Phos. of Lime	Baltimore	a2.27	2.00	2.20	2.00	.87	.....	8.37	8.00	21.67	19.60
22848	Special Compound	Baltimore	a3.24	3.00	4 08	3.00	.65	.....	8.75	8.00	27.80	24.60
22411	Special Plant Food	Baltimore	a1.77	2.00	5.07	5.00	1.12	.....	10.02	9.00	24.62	23.80
22412	Special Tobacco Bed Fert. 10%	Baltimore	a9.06	10.00	1.64	3.00	1.02	1.00	5.79	4.00	45.24	48.20
22546	Stag Guano	Baltimore	a1.54	1.00	3.71	4.00	1.55	.....	9.38	8.00	21.75	17.60
22413	Standard Ammoniated Phosphate	Baltimore	a2.17	2.00	2.55	2.00	1.00	.....	10.17	9.00	23.83	20.80
22449	Standard Potash Compound	Baltimore	.....	.....	5.37	5.00	2.00	.....	11.85	12.00	16.44	15.80
22496	Standard Southern Vege. Fert	Baltimore	a6.42	7.00	4.85	5.00	1.25	.....	9.30	6.00	42.19	40.20
	Patapsco Guano Co., Balto., Md.											
22779	Alkaline Plant Food	Baltimore	.....	.....	5.02	5.00	.85	.....	8.84	8.00	13.15	12.20
22434	Baltimore Soluble Phosphate	Baltimore	.....	.....	2.87	2.00	1.20	.....	11.42	11.00	13.39	11.90
22400	Blood, Bone and Potash	Baltimore	1.21	.50	2.23	2.00	.95	.....	9.16	8.00	18.44	13.60
22557	Columbia Guano	Baltimore	2.90	3.00	5.30	5.00	1.17	.....	8.39	8.00	27.44	26.60
22441	Coon Brand Guano	Baltimore	.97	1.00	3.26	3.00	1.22	.....	9.17	9.00	18.63	17.80
22530	Corn and Tomato Fertilizer	Baltimore	1.67	1.50	2.03	2.00	.90	.....	9.05	9.00	19.93	18.80
22589	Dissolved Raw Bone	Cockeysville	2.51	2.50	.....	.....	2.80	.....	12.95	12.00	26.70	24.40
22428	Early Trucker	Baltimore	4.83	5.00	5.51	5.00	1.37	.....	7.40	7.00	34.26	33.40
22861	Enterprise Phosphate	Baltimore	.....	.....	4.95	5.00	.60	.....	10.40	10.00	14.43	14.00
22429	Fish Guano	Baltimore	2.25	2.00	2.56	2.00	1.57	.....	10.05	6.00	24.25	17.20
22909	Grain and Grass Producer	Baltimore	.92	1.00	3.57	4.00	.53	.....	8.03	8.00	17.10	17.60
22505	High Grade Phosphate & Potash	Baltimore	.....	.....	5.16	5.00	1.05	.....	11.16	11.00	15.41	14.90
22442	Peninsula Potash Mixture	Baltimore	.....	.....	5.26	5.00	.75	.....	12.43	12.00	16.60	15.80
22817	Phospho Potash	Baltimore	.....	.....	4.07	3.00	.68	.....	7.16	6.00	10.65	8.40
22843	Potato Manure	Baltimore	1.84	2.00	10.21	10.00	.75	.....	5.86	5.00	24.90	24.00
22419	Pure Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.70	.....	14.92	14.00	13.57	12.60
22616	Sea Gull Guano	Snow Hill	1.01	1.00	1.40	1.00	.78	.....	9.72	8.00	17.41	14.60
22443	Soluble Phosphate and Potash	Baltimore	.....	.....	2.55	2.00	.87	.....	10.84	10.00	12.48	11.00
22531	Special Wheat Compound	Baltimore	2.49	2.25	3.11	2.50	1.78	5.00	11.98	9.00	28.16	24.30
22818	Tobacco and Potato Fertilizer	Baltimore	2.10	2.00	3.83	4.00	.67	.....	8.48	8.00	22.68	21.60

a Contains Nitrate. b As Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Peerless Fert. Co., Chestertown, Md.											
22563	American Standard Fertilizer....	Baltimore.....	a3.68	4.00	7.32	7.00	.82	.....	6.69	6.00	$30.40	$30.20
22756	Corn Fertilizer.....	Chestertown	.50	.75	3.64	3.00	.50	.....	6.98	8.00	14.22	15.60
22812	Imperial Compound.....	Baltimore.....	a1.01	1.00	4.48	4.00	.30	.....	7.26	8.00	17.35	17.60
22564	New Process Peruvian..	Baltimore.....	a7.79	9.00	3.57	3.00	.....	.....	.....	.....	26.94	30.00
22886	Sweet Potato Manure.....	Baltimore.....	a1.43	2.00	10.44	10.00	.47	.....	7.18	6.00	24.97	25.20
22950	Tomato Fertilizer.....	.....	a1.84	2.00	5.49	5.00	.30	.....	7.72	7.00	22.23	21.40
	Peruvian Guano Corporation, Charl	**eston, S. C.**										
22565	Chincha Peruvian Guano.....	Baltimore.....	4.49	5.00	1.86	2.00	2.35	.....	8.51	8.00	30.97	31.60
	Piedmont-Mt. Airy Guano Co., Bal	**timore, Md.**										
22928	Excelsior Peruvian Guano No. 1..	Baltimore.....	a4.55	5.00	4.14	3.00	.19	.....	6.78	8.00	30.56	32.60
22849	Insula Guano.....	Baltimore.....	.37	.50	2.66	2.00	.40	.....	7.25	7.00	13.00	12.40
22844	Levering's Ammoniated Bone...	Baltimore.....	.89	1.00	3.29	3.00	.38	.....	7.91	9.00	16.49	17.80
22799	Levering's Excelsior	Baltimore.....	.89	1.00	1.84	1.00	.65	.....	8.24	8.00	15.55	14.60
22952	Levering's Harvest Queen.....	Baltimore.....	1.07	1.00	2.03	2.00	.75	.....	8.30	8.00	16.57	15.60
22794	Levering's I. X. L. Crop Grower.	Baltimore.....	.....	.....	3.62	3.00	.47	.....	9.80	10.00	12.53	12.00
22763	Levering's Standard.....	Leslie	a1.94	2.00	3.51	3.00	1.07	.....	8.88	8.00	22.36	20.60
22558	Mt. Airy Garden & Truck Fert..	Baltimore.....	3.05	3.00	4.44	4.00	.37	.....	7.44	8.00	25.72	25.60
22669	Peerless Phosphate.....	Mt. Airy	.96	1.00	2.02	1.50	.42	1.00	9.61	8.00	17.56	15.50
22415	Piedmont Acid Phosphate 14%...	Baltimore.....	.....	.....	.....	.....	.27	.....	14.79	14.00	13.36	12.60
22450	Piedmont Acid Phosphate 16%...	Baltimore...	.....	.....	.....	.....	.42	.....	16.21	16.00	14.67	14.40
22772	Piedmont Am. H. G. Bone & Pot.	Baltimore.....	a3.10	3.00	3.68	3.00	1.87	.....	8.02	8.00	26.45	24.60
22444	Piedmont Bone Meal	Baltimore.....	5.12	4.00	.....	.....	*22.58	*21.00	.....	.....	34.03	28.60
22420	Piedmont Early Trucker.....	Baltimore.....	a5.14	5.00	5.33	5.00	.42	.....	6.03	6.00	33.30	32.20

22592	Piedmont Economy	Newark	.31	.25	3.26	2.00	.15	.....	10.23	10.00	16.84	15.00
22862	Piedmont Farmers' Bone & Pot.	Baltimore	.....	.....	3.23	2.00	.42	.....	10.64	10.00	12.89	11.00
22477	Piedmont Farmers' Favorite	Baltimore	1.26	1.00	5.30	4.00	.65	.....	7.89	8.00	20.07	17.60
22435	Piedmont Fish Guano	Baltimore	1.81	2.00	2.20	2.00	.65	.....	8.98	8.00	20.48	19.60
22910	Piedmont Guano for Tobacco	Baltimore	a2.18	2.50	4.09	3.00	.47	.....	7.77	8.00	22.32	22.60
22887	Piedmont H. G. Am. Bone & Pot.	Baltimore	2.46	3.00	3.75	3.00	.57	.....	9.90	8.00	25.70	24.60
22873	Piedmont Penn. Potato Producer.	Baltimore	a1.86	2.00	9.77	10.00	.37	.....	7.14	6.00	25.93	25.20
22670	Piedmont Perfection Guano	Mt. Airy	1.93	2.00	3.98	5.00	.52	.....	9.49	8.00	23.30	22.60
22764	Piedmont Plow Brand	Leslie	a2.08	2.00	2.71	2.00	.87	.....	7.63	8.00	20.54	19.60
22506	Piedmont Potato Producer	Baltimore	2.61	3.00	5.57	5.00	.38	.....	6.73	5.00	24.24	23.00
22507	Piedmont Special Potash Mixture	Baltimore	.....	.....	6.22	5.00	.15	.....	11.12	10.00	16.26	14.00
22516	Piedmont Special Truck Fertilizer	Baltimore	a6.93	7.00	4.65	5.00	1.12	.....	5.73	6.00	39.70	40.20
22671	Piedmont Success	Mt. Airy	.44	.25	5.65	5.00	.40	.....	9.93	9.00	19.49	16.80
22874	Piedmont Wheat Compound	Baltimore	.....	.....	5.24	5.00	.32	.....	11.56	12.00	15.70	15.80
	Plant & Land Food Co., Balto., Md.											
22903	U-Tree-T-Me Plant Food	Baltimore	a2.90	g2.43	8.37	8.00	.20	1.00	10.24	7.00	32.34	26.52
22904	U-Tree-T-Me Plant Food	Baltimore	a6.11	h6.07	4.82	4.00	.30	1.00	8.07	5.00	39.06	34.68
	Pollock Fertilizer Co., Balto., Md.											
22508	Accomac Trucker	Baltimore	4.78	5.00	5.69	5.00	1.10	.....	8.19	7.00	35.08	33.40
22436	Ammoniated Super-Phosphate	Baltimore	2.22	2.00	2.83	2.00	1.37	.....	8.19	8.00	22.09	19.60
22769	Crop Invigorator	Baltimore	1.06	1.00	4.13	4.00	.75	.....	8.02	8.00	18.29	17.60
22617	Dissolved Phosphate and Potash	Snow Hill	.....	.....	4.59	4.00	.70	.....	10.63	10.00	14.30	13.00
22845	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.67	.....	14.87	14.00	13.51	12.60
22624	Early Truck Guano	Baltimore	6.89	7.00	5.64	5.00	1.17	.....	7.25	6.00	42.37	40.20
22825	Ground Animal Bone	Baltimore	4.57	4.00	.....	.....	*21.16	*21.51	.....	.....	30.98	28.91
22813	Owl Brand Guano	Baltimore	1.02	.50	1.94	1.50	.87	.....	8.37	7.00	16.41	11.90
22833	Special Corn Fertilizer	Baltimore	.....	.....	5.34	5.00	.50	.....	8.41	8.00	13.01	12.20
22488	Special Potato and Tobacco Fer.	Catonsville	1.74	2.00	4.57	4.00	1.45	.....	8.40	8.00	22.19	21.60
22489	Superior Corn & Tomato Fertilizer	Catonsville	1.09	1.00	2.28	2.00	1.40	.....	8.45	8.00	17.34	15.60
22490	Victor Brand Phosphate	Catonsville	.....	.....	1.65	1.00	.42	.....	8.73	9.00	9.59	9.10
	Ramsburg Fert. Co., Frederick, Md.											
22611	Ammoniated Bone Phosphate	Buck Lodge	1.40	1.00	2.95	2.00	1.95	.....	8.03	10.00	18.97	18.00
22612	Corn and Potato Fertilizer	Buck Lodge	1.16	1.21	4.28	4.00	1.42	.....	8.32	8.00	19.47	18.44
22672	Excelsior Plant Food	Mt. Airy	1.84	2.00	2.67	2.00	1.32	.....	9.15	9.00	21.54	20.80
22641	Old Virginia Compound	Monrovia	1.23	1.21	4.74	4.00	1.27	.....	8.55	8.00	20.43	18.44
22642	Special Rock and Potash	Monrovia	.....	.....	4.34	5.00	1.42	.....	9.18	10.00	12.88	14.00
22748	Williams' Wheat & Grass Fert.	Monrovia	1.23	1.00	2.48	2.00	1.79	.....	8.28	8.00	18.06	15.60

a Contains Nitrate. g Nitrogen 2%=Ammonia 2.43%. h Nitrogen 5%=Ammonia 6.07%. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Rasin-Monumental Co., Balto., Md.						2.55	1.00	14.36	14.00	$13.43	$12.80
22493	Rasin's Acid Phosphate	Baltimore	.....	.....	.....	.....	.95	1.00	16.68	16.00	15.20	14.60
22643	Rasin's Acid Phosphate	Adamstown	.....	.....	.....	.....	1.80	1.00	8.26	8.00	19.14	16.00
22548	Rasin's Am. Acid Compound	Baltimore	1.42	1.00	2.83	2.00	.80	1.00	9.82	10.00	11.58	11.20
22851	Rasin's Bone and Potash Fer.	Baltimore	.....	.....	2.58	2.00	1.80	.....	14.08	10.00	26.82	20.00
22423	Rasin's Dissolved Bone	Baltimore	2.30	2.00	.....	.....	1.05	1.00	6.76	6.00	36.11	33.60
22625	Rasin's Early Trucker	Pocomoke City	5.34	5.00	b 5.18	5.00	1.50	1.00	8.46	8.00	20.89	20.00
22601	Rasin's Empire Guano	Germantown	1.95	2.00	2.34	2.00	.55	1.00	6.35	6.00	26.66	25.60
22948	Rasin's Gold Standard	Pocomoke City	a3.03	3.00	6.70	6.00	1.32	1.00	12.56	12.00	17.02	16.00
22644	Rasin's High Grade Bone & Pot.	Woodsboro	.....	.....	5.46	5.00	.97	1.00	8.29	7.00	30.68	28.40
22626	Rasin's Irish Potato Special	Princess Anne	3.75	4.00	b4.45	3.00	.95	1.00	6.11	6.00	22.95	22.60
22549	Rasin's Mon. Potato Manure	Baltimore	a2.03	2.00	7.12	7.00	1.30	1.00	8.31	8.00	19.47	18.00
22566	Rasin's National Crop Compound	Baltimore	1.21	1.00	4.14	4.00	*21.47	*22.50	.....	.....	31.44	31.50
22632	Rasin's Pure Raw Bone	Baltimore	4.64	4.50	.....	.....	2.67	1.00	8.19	8.00	21.39	21.00
22445	Rasin's Royal Fish, Bone & Pot.	Baltimore	1.81	2.00	3.25	3.00	1.30	... ..	10.18	10.00	15.02	14.00
22590	Rasin's Special Bone and Potash.	Sparks	...	.....	5.60	5.00	1.60	1.00	7.10	6.00	21.02	18.60
22593	Rasin's Spec. Fish and Pot. Mix.	Girdletree	2.12	2.00	3.38	3.00	1.47	1.00	8.32	6.00	10.88	8.60
22422	Rasin's Special Formula	Baltimore	.....	.....	3.10	3.00	1.37	1.00	7.19	7.00	18.91	17.80
22567	Rasin's Standard Tomato Grower	Baltimore	1.16	1.00	5.09	5.00	1.05	1.00	13.02	13.00	17.85	17.90
22935	Rasin's Triple Bone and Potash	....	.....	.....	5.92	6.00	1.07	1.00	7.28	6.00	41.49	41.60
22437	Rasin's Truckers' Mixture	Baltimore	6.38	7.00	b5.67	5.00	1.15	1.00	8.03	8.00	30.92	28.00
22784	Rasin's Vegetable Special	Baltimore	2.13	2.00	12.30	10.00	1.30	1.00	8.47	8.00	15.84	14.00
22602	Rasin's Wheat, Corn & Oats Mix.	Germantown	.67	.50	2.48	2.00	.62	1.00	8.18	8.00	12.50	12.40
22494	Rasin's Wheat Potash Mixture	Baltimore	.....	.....	5.02	5.00	1.42	1.00	8.34	8.00	24.98	24.00
22438	Rasin's XXX Fertilizer	Baltimore	a1.94	2.00	b5.53	5.00						

22603	William Penn Crop Grower	Germantown	1.09	1.00	1.17	1.00	1.30	1.00	8.26	8.00	15.96	15.00
	Reindollar Co., Taneytown, Md.											
22673	Economy Fertilizer	Harney	.97	1.00	4.17	4.00	1.45	.....	9.61	8.00	20.16	17.60
22674	Special Compound	Taneytown	.36	.50	2.41	1.00	1.50	.....	8.80	8.00	15.01	12.60
	W. E. Robinson & Co., Bel Air, Md.											
22683	Special Mixture	Fallston	2.08	2.00	5.55	5.00	.57	.....	8.72	8.00	24.56	22.60
	F. S. Royster Guano Co., Balto, Md											
22451	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.62	1.00	15.35	14.00	13.94	12.80
22517	Ammoniated Potash Compound	Baltimore	1.13	1.00	7.40	7.00	.58	1.00	9.33	9.00	23.35	22.20
22452	Arrow Potato Guano	Baltimore	7.03	7.00	5.91	5.00	1.15	.....	6.26	6.00	42.00	40.20
22518	Bonanza Potato & Truck Guano	Baltimore	3.17	3.00	6.91	6.00	.35	.....	6.49	6.00	27.52	25.20
22780	Bumper Crop Phosphate	Baltimore	.....	.....	5.66	5.00	.37	1.00	8.08	8.00	13.00	12.40
22578	Champion Crop Compound	Baltimore	2.01	2.00	4.03	4.00	.52	1.00	8.60	8.00	22.60	22.00
22509	Farmers' Delight Fertilizer	Baltimore	1.09	.50	2.42	2.00	.28	1.00	8.28	8.00	16.83	14.00
22568	Fine Ground Bone	Baltimore	3.29	3.00	.....	.....	*24.75	*22.90	.....	.....	28.01	25.74
22633	Golden Harvest Fertilizer	Baltimore	2.06	2.00	2.63	2.00	.22	1.00	8.15	8.00	20.74	20.00
22478	Gold Seal Potato & Tobacco Spec.	Baltimore	2.05	2.00	10.34	10.00	.87	1.00	8.06	8.00	28.56	28.00
22954	High Grade Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.42	1.00	17.03	16.00	15.41	14.60
22520	Imperial Formula	Baltimore	1.02	1.00	4.24	4.00	.40	1.00	8.45	8.00	18.62	18.00
22896	Peerless Grain & Grass Grower	Baltimore	.....	.....	2.38	2.00	.45	1.00	10.02	10.00	11.49	11.20
22834	Prolific Potato Producer	Baltimore	1.28	1.50	5.15	5.00	.18	1.00	5.73	6.00	17.22	18.60
22765	Pure Raw Bone Meal	Colora	4.21	4.50	.....	.....	*20.90	*21.50	.....	.....	29.38	30.90
22532	Special Tomato Guano	Baltimore	2.10	2.00	5.51	5.00	.35	1.00	7.44	7.00	22.98	21.80
22550	Superior Potash Mixture	Baltimore	.....	.....	5.08	5.00	.62	.....	12.24	12.00	16.22	15.80
22479	Universal Truck Fertilizer	Baltimore	3.89	4.00	7.45	7.00	.85	1.00	8.22	8.00	33.21	33.00
	Scott Fertilizer Co., Elkton, Md.											
22695	Corn and Oats Grower	Childs	.94	.50	2.58	2.00	2.10	.....	8.61	8.00	17.51	13.60
22955	Potato Grower	.....	2.23	2.00	10.01	10.00	2.30	.....	8.65	6.00	30.23	25.20
22685	Pure Ground Raw Bone	Aberdeen	4.78	4.00	.....	.....	*21.95	*21.00	.....	.....	32.29	28.60
22696	Sure Crop Grower	Childs	2.15	2.00	5.48	5.00	3.37	.....	8.41	8.00	25.52	22.60
22686	Sure Growth Super-Phosphate	Aberdeen	2.10	2.00	3.13	3.00	1.20	.....	9.03	8.00	22.85	20.60
22697	Tip Top and Potash	Childs	.....	.....	2.47	2.00	1.12	.....	14.84	10.00	16.05	11.00
22698	Tip Top Soluble Phosphate	Childs	.....	.....	.....	.....	.62	.....	16.02	14.00	14.54	12.60
	W. H. Street & Co., Fallston, Md.											
22472	Ammoniated Dissolved Bone	Baltimore	1.66	1.50	2.47	2.00	.97	1.50	9.63	9.00	21.06	19.40
22473	High Grade Bone Phosphate	Baltimore	2.54	2.50	3.32	3.00	.75	1.50	8.28	8.00	23.72	23.20
	H. S. Taveau & Co., Baltimore, Md.											
22559	Allerton Guano	Baltimore	2.05	2.00	3.85	2.50	1.00	.....	10.33	9.00	24.85	21.30

a Contains Nitrate. b As Sulfate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	H. S. Taveau & Co., Baltimore, Md.											
22785	Florida Phosphate	Baltimore	.....	.....	.....	.....	.90	.....	14.15	14.00	$12.92	$12.60
22510	Pride of Maryland	Baltimore	1.09	1.00	2.72	2.50	1.07	.....	10.73	10.00	20.39	18.50
22914	Pride of Virginia	Baltimore	.....	.....	3.01	3.00	1.02	.....	11.70	12.00	13.74	13.80
22474	Special Compound	Baltimore	.....	.....	2.38	2.00	.95	.....	10.25	10.00	11.80	11.00
	D. A. Thomas & Co., Hagerstown,	**Md.**										
22645	Bone Mixture	Hagerstown	a1.57	2.00	2.67	2.00	.60	.....	8.55	8.00	19.45	19.60
22646	Crown Jewel	Hagerstown	a1.01	1.00	3.29	3.00	.52	.....	9.65	9.00	19.12	17.80
22647	Dissolved Bone Phosphate	Hagerstown	.....	.....	.....	.....	1.12	.....	16.32	16.00	14.91	14.40
22648	Excelsior Compound,	Hagerstown	a1.76	2.00	4.53	4.00	.75	1.00	8.70	8.00	22.31	22.00
22649	Farmers' Mixture	Hagerstown	a1.01	1.00	2.93	2.00	.60	.....	8.82	8.00	17.79	15.60
22650	Golden Sheaf	Hagerstown	.90	1.00	1.39	1.00	.57	.....	8.48	8.00	15.40	14.60
22930	Pioneer	Hagerstown	.....	.....	5.62	5.00	.20	.....	9.01	8.00	13.77	12.20
22651	Soluble Bone and Potash	Hagerstown	.....	.....	2.55	2.00	.37	.....	10.50	10.00	12.07	11.00
	I. P. Thomas & Son Co., Phila., Pa.											
22781	Champion Phosphate	Providence	a2.11	2.00	4.25	4.00	1.85	1.00	7.71	8.00	22.68	22.00
22497	Fish Guano	Annapolis	a1.71	2.00	2.38	2.00	1.30	1.00	9.60	9.50	21.26	21.80
22498	Potato Fertilizer	Annapolis	1.96	2.00	5.66	6.00	.97	1.00	9.17	9.00	24.89	25.20
22499	Potato Manure	Annapolis	a3.03	3.00	5.91	6.00	.77	1.00	10.05	9.00	30.40	29.20
22782	Pure Ground Animal Bone	Fair Hill	3.82	4.00	.....	.....	*25.79	*21.00	.....	.....	30.75	28.60
22500	Sweet Potato Manure	Annapolis	a1.88	2.00	10.26	10.00	.92	1.00	7.45	7.00	27.09	26.80
22501	Tip Top Super-Phosphate	Annapolis	a3.04	3.00	4.48	4.00	.90	1.00	8.73	8.00	27.48	26.00
22783	Victor Potash Manure	Providence	1.11	1.00	5.43	5.00	.55	1.00	8.54	8.00	20.34	19.00

	Wm. B. Tilghman Co., Salisb'y, Md.											
22758	High Grade Corn Fertilizer	Sharptown	1.14	1.00	5.04	5.00	.80	....	10.13	10.00	22.08	21.00
22618	High Grade Potash Mixture	Salisbury	a1.74	2.00	10.64	10.00	.70	.....	8.05	8.00	27.54	27.60
22619	High Grade Potato Fertilizer	Salisbury	a2.85	3.00	6.51	6.00	.92	.....	8.28	6.00	28.22	25.20
22594	Mixture "B"	Berlin	a3.70	4.00	4.47	4.00	1.25	.....	7.85	7.00	29.19	28.40
22595	7% Fertilizer	Berlin	a6.09	7.00	6.17	5.00	.97	.....	6.70	6.00	38.96	40.20
22596	Standard Fish Mixture	Girdletree	a2.10	2.00	2.70	2.00	1.05	....	8.48	8.00	21.70	19.60
22597	Standard Tomato Mixture	Girdletree	a1.93	2.00	3.20	4.00	.85	.....	9.43	8.00	22.58	21.60
22620	Station's Strawberry Special	Salisbury	a4.43	5.00	7.79	7.50	.68	.....	8.35	6.00	35.80	34.70
	Turner & Son, Betterton, Md.											
22613	X. X. Tomato, Potato & Truck Fer	Baltimore	1.96	2.00	5.61	5.00	.97	.....	7.30	7.00	22.60	21.40
	Tuscarora Fert. Co., Balto., Md.											
22459	Acid Phosphate	Baltimore	.....	.....	.....	.....	.95	.50	14.26	14.00	13.02	12.70
22858	Alkaline	Baltimore	.....	....	4.96	5.00	.40	.50	10.44	10.00	14.44	14.10
22759	Big (4) Four	Rhodesdale	2.06	2.00	4.21	4.00	.87	.50	7.42	7.00	21.70	20.60
22826	Crop Grower	Baltimore	1.23	1.00	2.30	2.00	.82	.50	7.96	8.00	17.10	15.80
22905	Fruit and Potato	Baltimore	2.17	2.00	10.18	10.00	.90	.50	8.87	8.00	29.86	27.80
22560	Garden Fertilizer	Baltimore	a3.53	3.50	b4.61	4.00	.57	.50	8.74	8.00	30.37	28.60
22827	Standard Phosphate	Baltimore	2.01	2.00	2.30	2.00	1.05	.50	8.31	8.00	20.73	19.80
22850	Sure Grower	Baltimore	.73	.50	2.71	3.00	.65	.50	8.32	8.00	15.87	14.80
22828	York State Special	Baltimore	1.07	1.00	4.21	4.00	.42	.50	10.53	8.00	21.30	17.80
	J. E. Tygert Co., Philadelphia, Pa.											
22569	Big Crop Grower	Baltimore	.....	.....	4.90	5.00	.60	.....	8.64	8.00	12.80	12.20
22570	Gold Edge Potato Guano	Baltimore	1.96	2.00	5.28	5.00	1.02	.....	8.53	7.00	23.77	21.40
22922	Victor Crop Grower	Baltimore	1.06	1.00	3.42	4.00	.67	.....	8.45	8.00	18.07	17.60
	United States Fertilizer Co., Balto Md.											
22453	Farm Bell Acid Phosphate	Baltimore	.....	.....	.....	.....	.47	.....	14.02	14.00	12.71	12.60
22571	Farm Bell Acid Phosphate	Baltimore	.....	.....	.....	.....	.30	.....	16.97	16.00	15.33	14.40
22863	Farm Bell Alkaline Mixture	Baltimore	.....	.....	2.68	2.00	.32	.....	10.58	10.00	12.26	11.00
22689	Farm Bell Animal Ammoniated	Bel Air	1.95	2.00	5.59	5.00	.62	.....	9.01	8.00	24.45	22.60
22690	Farm Bell Buckeye Guano	Bel Air	.90	1.00	2.32	2.00	.72	.....	10.18	9.00	18.43	16.80
22829	Farm Bell Crop Grower	Baltimore	2.76	2.50	3.89	3.00	.77	.....	8.36	8.00	25.27	22.60
22572	Farm Bell Fruit & Potato Guano	Baltimore	2.03	2.00	10.17	10.00	.65	.....	8.55	8.00	28.81	27.60
22691	Farm Bell Pennant Winner	Bel Air	1.11	1.00	4.20	4.00	.47	.....	8.90	8.00	19.51	17.60
22773	Farm Bell Phosphate & Potash	Baltimore	.....	.....	6.34	5.00	.35	.....	8.18	8.00	13.77	12.20
22864	Farm Bell Phospho Potash	Baltimore	.....	.....	5.65	5.00	.30	.....	12.50	12.00	16.96	15.80
22573	Farm Bell Special Mixture	Baltimore	.....	.....	4.33	4.00	.60	.....	11.18	10.00	14.51	13.00
22574	Farm Bell Standard Guano	Baltimore	2.25	2.00	2.45	2.00	1.52	.....	8.22	8.00	21.92	19.60

a Contains Nitrate. b As Sulfate.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	E. S. Valliant & Sons, Church Hill,	**Md.**										
22424	Acid Phosphate	Baltimore	.....	.....	.....	.....	.72	.....	14.47	14.00	$13.16	$12.60
22406	Favorite Brand	Baltimore	2.63	2.00	5.03	5.00	.70	.....	8.03	8.00	25.47	22.60
22774	Grain Grower	Baltimore	.63	.50	2.30	2.00	.77	1.00	8.09	8.00	14.84	14.00
22757	Ideal Fertilizer	Church Hill	1.11	1.00	2.45	2.00	.57	.....	9.77	9.00	18.84	16.80
22342	S. C. Rock	Denton (J. R. B.)	.....	.....	.....	.....	.82	.....	15.26	14.00	13.89	12.60
22407	Spring Guano	Baltimore	4.11	4.00	6.33	6.00	.67	.....	7.32	7.00	31.82	30.40
22341	Spring Guano	Denton (J. R. B.)	4.04	4.00	6.31	6.00	.87	.....	7.15	7.00	31.40	30.40
22352	Spring Guano	Hurlock (T. H. M.)	3.86	4.00	6.64	6.00	.30	.....	7.78	7.00	31.54	30.40
22454	Standard Fertilizer	Baltimore	1.16	1.00	4.58	4.00	.82	.....	9.27	9.00	20.67	18.80
	Virginia-Carolina Chemical Co., Ri	**chmond, Va.**										
22533	Corn and Buckwheat Special	Baltimore	.....	.....	3.45	3.00	.72	1.00	8.45	6.00	11.20	8.60
22868	Crop Grower	Easton	2.06	2.00	2.31	2.00	.97	1.00	8.34	8.00	20.95	20.00
22786	Dissolved Bone and Potash	Baltimore	.....	.....	2.33	2.00	1.10	.....	10.22	10.00	11.75	11.00
22534	Double Bone and Potash	Baltimore	.....	.....	4.76	4.00	.67	1.00	8.86	8.00	12.86	11.40
22652	Fish, Bone and Potash	Ladiesburg	2.08	2.00	3.68	3.00	2.25	1.00	8.02	8.00	22.52	21.00
22535	National Ammoniated Guano	Baltimore	1.40	1.00	4.22	4.00	1.15	1.00	8.48	8.00	20.46	18.00
22687	Owl Brand Guano	Aberdeen	a1.79	2.00	4.71	5.00	1.32	1.00	8.24	8.00	22.29	23.00
22591	Prize Potato Manure	Upperco	a1.76	2.00	5.82	6.00	.60	1.00	6.21	6.00	20.55	21.60
22551	Special Bone and Potash	Baltimore	.....	.....	4.86	5.00	.85	1.00	10.90	10.00	14.84	14.20
22653	Special Corn Compound	Hancock	1.01	1.00	2.13	2.00	1.50	1.00	8.97	9.00	17.53	17.20
22654	Standard Corn & Grain Grower	Ladiesburg	.65	.50	2.67	2.00	1.17	1.00	8.02	8.00	15.36	14.00
22865	Standard Tomato Grower	Baltimore	1.13	1.00	4.66	5.00	.75	1.00	7.27	7.00	18.20	17.80
22688	Star Truck Compound	Aberdeen	a1.89	2.00	b10.08	10.00	1.17	1.00	8.47	8.00	30.29	30.00
22866	Union Super-Phosphate	Baltimore	.....	.....	3.04	3.00	.85	1.00	6.64	6.00	9.19	8.60

	S. L. Webster & Son, Cambridge,	**Md.**										
22760	Ammoniated Bone Phosphate....	Vienna.....	**1.53**	2.00	**3.65**	3.00	**1.35**	.....	**8.01**	7.00	**19.92**	19.40
22656	Fish Mixture.....	Cambridge.....	**1.69**	1.50	**2.33**	2.00	**1.35**	.....	**9.22**	8.00	**20.69**	17.60
22657	Old Dorset	Cambridge.....	**.80**	1.00	**3.66**	4.00	**.92**	.....	**8.74**	8.00	**17.72**	17.60
22658	Our No. 1.....	Cambridge.....	**2.88**	2.50	**3.19**	2.50	**1.27**	.....	**8.42**	10.00	**25.32**	24.50
22659	Tomato Compound.....	Cambridge.....	**1.55**	1.50	**5.13**	4.00	**.85**	.....	**6.71**	4.00	**19.72**	14.80
22660	Tomato Special	Cambridge.....	**.92**	1.00	**5.48**	5.00	**.67**	.....	**7.75**	7.00	**18.73**	17.40
22761	Truck Grower.....	Vienna.....	**a3.05**	5.00	**5.49**	5.00	**1.42**	.....	**9.77**	7.00	**29.98**	33.40
	Westminster Fertilizer Co., Westm	**inster, Md.**										
22675	Governor.....	Westminister.....	**a1.54**	1.50	**3.25**	2.50	**.50**	.....	**9.06**	9.00	**20.48**	19.30
22676	Leader.....	Westminister.....	**.89**	1.00	**1.78**	1.50	**.57**	.....	**8.60**	8.00	**15.89**	15.10
22677	Super-A.....	Tyrone.....	**.77**	.75	**1.59**	1.00	**.75**	.....	**8.28**	8.00	**14.91**	13.60
	H. W. Whistler, Fountain Green,	**Md.**										
22692	Crop Grower...	Bel Air	**1.86**	1.50	**2.63**	2.00	**.95**	. ....	**8.08**	8.00	**20.15**	17.60
	F. M. Wilson & Co., Pocomoke Ci	**ty, Md.**										
22627	Favorite Truck Fertilizer.....	Pocomoke City	**3.29**	3.00	**7.18**	7.00	**.92**	.....	**8.20**	8.00	**30.55**	28.60
22628	Pen. Ammoniated Super-Phos....	Pocomoke City.....	**.90**	1.50	**2.87**	2.00	**.32**	.. ..	**10.84**	10.00	**19.61**	20.00
	R. A. Wooldridge Co., Balto, Md.											
22523	Champion Giant Phosphate.....	Baltimore.....	**1.08**	1.00	**2.26**	2.00	**.75**	.....	**9.96**	9.00	**18.83**	16.80
22480	Chieftain Phosphate.....	Baltimore.....	**2.17**	2.00	**2.58**	2.00	**1.02**	.....	**8.46**	8.00	**21.82**	19.60
22897	Double Quick Pure Bone Phos...	Baltimore.....	**3.85**	2.75	**3.10**	3.00	**1.02**	.....	**9.29**	9.00	**30.06**	24.80
22446	Eclipse Animal Bone Truck Fert.	Baltimore.....	**6.38**	10.00	**3.98**	3.00	**1.92**	.....	**7.48**	5.00	**39.25**	49.00
22575	Farmers' Favorite Cereal Com...	Baltimore.....	**.80**	.50	**2.65**	2.00	**.90**	.....	**8.01**	7.00	**15.82**	12.40
22852	Gernwood Grange Mixture.....	Baltimore.....	**1.84**	2.00	**7.51**	8.00	**.85**	.....	**8.27**	8.00	**25.13**	25.60
22536	Florida Acid Phosphate.....	Baltimore.....	.....	... ..	.....	.....	**.37**	. ....	**16.06**	14.00	**14.52**	12.60
22537	German Potash Mixture.....	Baltimore.....	.....	.....	**2.42**	2.00	**1.15**	.....	**9.94**	10.00	**11.60**	11.00
22608	Gold Crown An. Bone Truck Phos	Baltimore.....	**6.48**	7.00	**5.25**	5.00	**1.22**	.....	**6.72**	6.00	**39.72**	40.20
22911	High Grade Acid Phosphate.....	Baltimore.....	.....	.....	.....	.....	**.35**	.....	**17.14**	16.00	**15.50**	14.40
22634	Ideal Grain and Grass Producer..	Baltimore.....	.....	.....	**2.31**	4.00	**.77**	.....	**11.90**	10.00	**13.17**	13.00
22401	Liberty Bell Potash Mixture.....	Baltimore.....	.....	.....	**3.03**	3.00	**.55**	.....	**12.82**	12.00	**14.68**	13.80
22614	No. 1 Phosphate and Potash.....	Baltimore.....	.....	.....	**3.44**	3.00	**.65**	.....	**7.21**	6.00	**10.06**	8.40
22775	No. 2 Phosphate and Potash.....	Baltimore.....	.....	.....	**5.22**	5.00	**.67**	.....	**8.13**	8.00	**12.67**	12.20
22408	Old Sledge Phosphate.....	Baltimore.....	.....	.....	**6.02**	5.00	**.55**	.....	**12.50**	12.00	**17.38**	15.80
22635	Pure Raw Bone	Baltimore.....	**4.69**	4.00	.....	.....	***20.62**	***20.59**	... ..	.....	**31.13**	28.35
22481	Sovereign Trucker..... ...	Baltimore.....	**4.69**	5.00	**5.88**	5.00	**1.00**	.....	**7.75**	7.00	**34.34**	33.40
22521	Special Potato & Tobacco Fer...	Baltimore.....	**2.18**	2.00	**5.08**	5.00	**.76**	.....	**9.87**	9.00	**25.94**	23.80
22475	S. Stakes Sure Shot Truck Phos.	Baltimore.....	**3.14**	3.00	**8.05**	8.00	**1.65**	.....	**7.50**	7.00	**30.27**	28.40
22947	Triumph Brand Phosphate.....	.....	**1.60**	1.50	**4.29**	4.00	**.62**	.....	**8.61**	8.00	**21.27**	19.60

a Contains Nitrate. b As Sulfate. * Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's Initials, when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed
							Insoluble		Available			
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
	Wooldridge Fertilizer Co., Balto, Md.											
22604	Clover Leaf Crop Grower	Germantown	.73	.50	2.59	2.00	.80	.50	7.86	8.00	$15.26	$13.80
22605	Curacao Guano	Germantown	....	.....	.....	.....	13.90	14.00	10.55	10.00	12.28	11.80
22795	Flesh & Fish Vegetator	Baltimore	2.97	3.00	8.01	7.00	.75	.....	7.17	7.00	28.79	27.40
22511	H. G. Potato & Tomato Grower	Baltimore	2.05	2.00	5.08	5.00	.70	.....	9.49	9.00	24.95	23.80
22606	Old Hickory Phosphate	Germantown	1.33	1.25	2.29	2.00	.72	.50	8.22	8.00	17.76	16.80
22906	Orchilla Guano	Baltimore	.....	.....	.....	.....	14.80	11.00	8.81	9.50	10.89	10.30
22607	Tiger Bone Stock Phosphate	Germantown	1.27	1.25	5.10	4.50	.62	.50	8.43	8.00	20.55	19.30
	York Chemical Works, York, Pa.											
22678	Dempwolf's Potato Manure	Taneytown	a1.04	1.00	7.80	7.00	1.17	.50	5.73	6.00	19.31	18.40
22693	Dempwolf's Standard	Highland	1.77	2.00	5.74	5.00	1.07	.....	8.41	8.00	23.34	22.60
22694	Spring Special	Highland	a2.04	2.00	10.23	10.00	1.25	2.00	6.88	7.00	27.15	27.20

a Contains Nitrate.

CONTENTS

	PAGE
Explanatory	2
Schedule for Comparative Values	3
Guarantees and "Bone Phosphate"	3–5
Tables Fertilizer Analyses	6–34
College Advertisement	36

THE MARYLAND AGRICULTURAL COLLEGE

COLLEGE PARK, MARYLAND

Fifty-sixth Year Opens September 13th and 14th for Examinations.

Fall Term Begins September 15, 1911

MARYLAND'S SCHOOL OF TECHNOLOGY

EIGHT COURSES OF INSTRUCTION LEADING TO

Professional Degree of B. S.

Agricultural, Chemical, Horticultural, Mechanical Engineering, Electrical Engineering, Civil Engineering, Biological and General.

Positions Assured to Those Who Work With a Will

The Demand of the Age is Trained Men for Life's Activities

Each Department supplied with the most modern and approved apparatus. Practical work emphasized in all Departments. Graduates qualified to enter at once upon life's work. Boarding Department supplied with all modern improvements; bathrooms, steam heat and electric lights. New buildings with modern improvements. Location unsurpassed for health.

Tuition, books, heat, light, laundry, board, medical attention, annual deposit, chemical and athletic fees all included in an annual charge of $60 per quarter, payable in advance. Sanatorium for isolation of contagious diseases; resident physician and trained nurse in attendance.

Catalog giving full particulars on application. Attention is called to the Short Course of Ten Weeks in Agriculture.

FAILURE TO REPORT PROMPTLY MEANS LOSS OF OPPORTUNITY TO STUDENTS.

Early application necessary for admittance. Write for particulars.

R. W. SILVESTER, President, College Park, Md.